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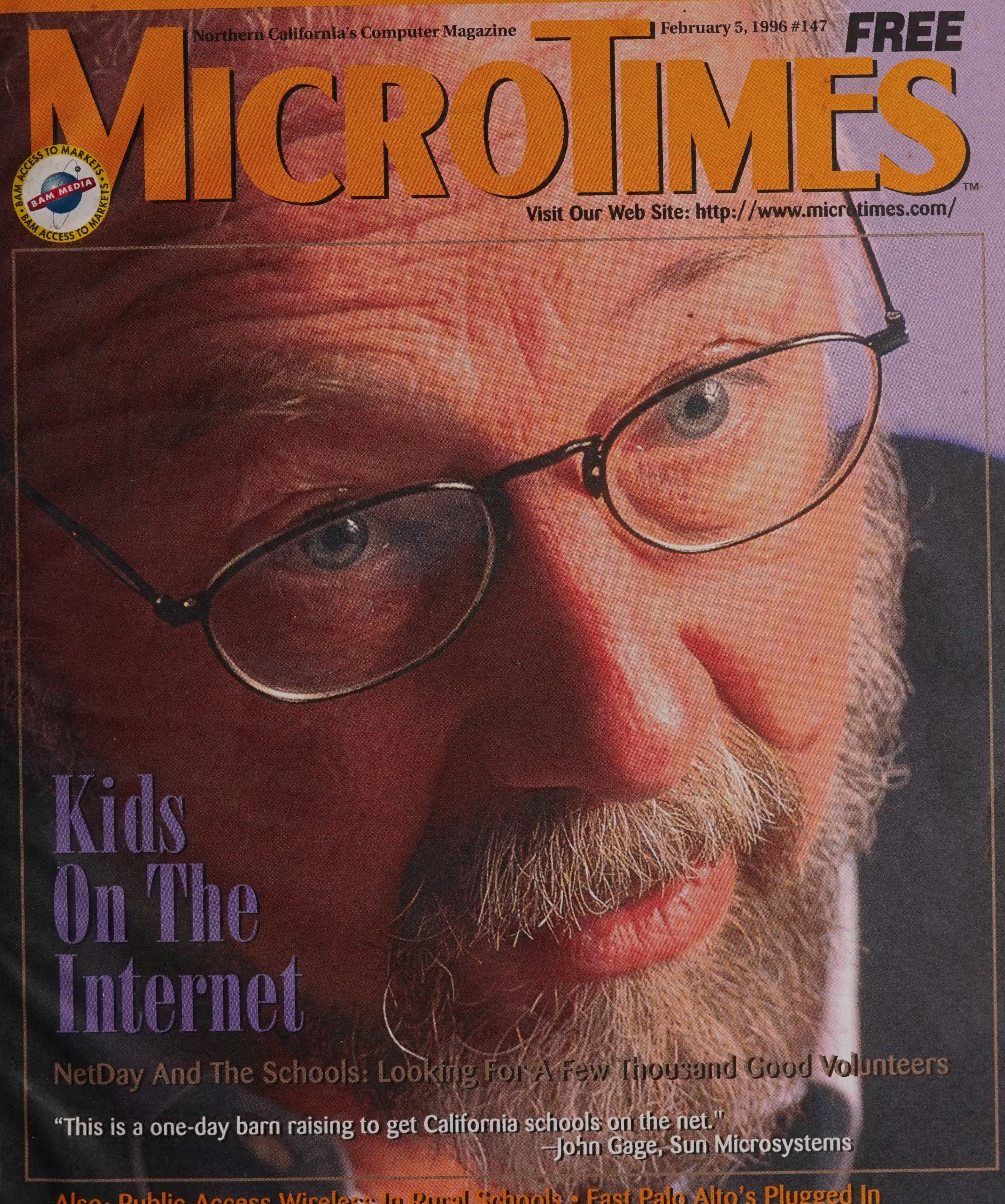

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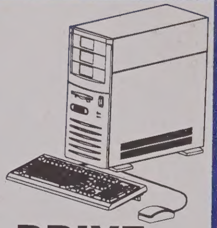

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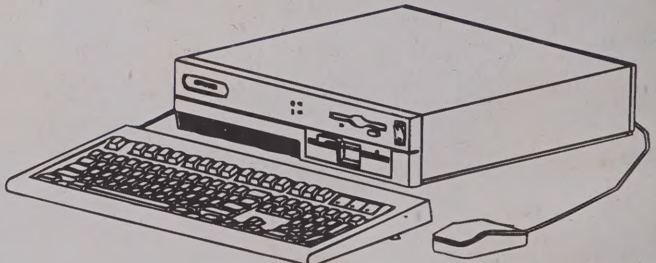

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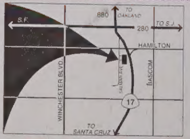
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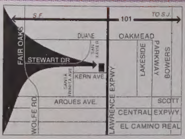
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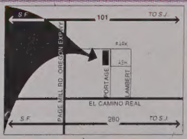
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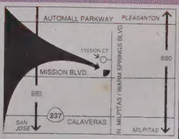
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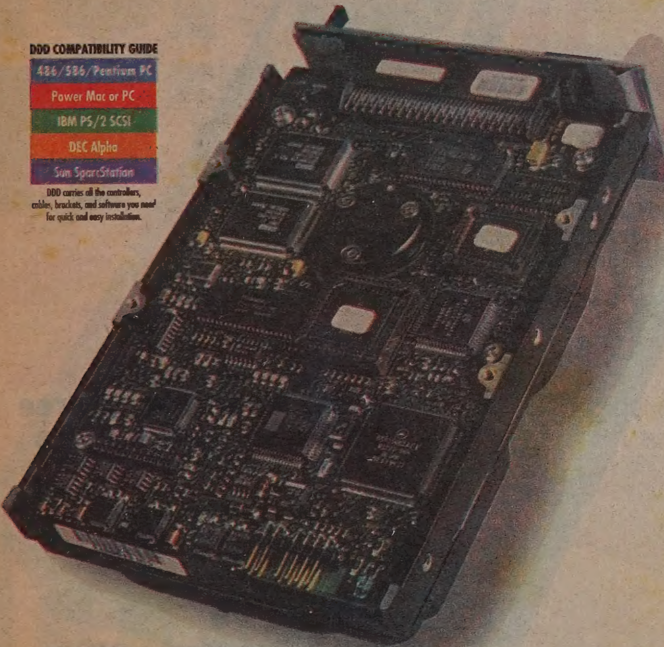

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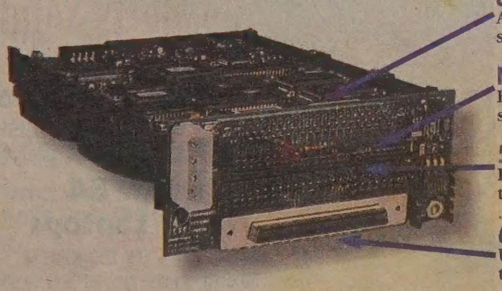

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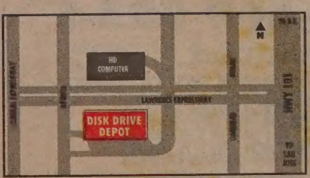

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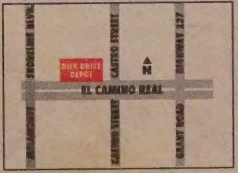

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Contents

MICROTIMES™

February 5, 1996 • Issue #147

COVER STORY

138

Kids On The Net

NetDay 96

Sun's John Gage Talks About Barn Raising On The Web

BY MARY EISENHART

COVER PHOTO: ANNE KNUDSEN

Using the Web as an organizing tool, NetDay 96 will bring together thousands of volunteers to make California schools Internet-ready.

Also

154

Plugged In

BY CYNTHIA DYER-BENNET

Online in East Palo Alto.

158

24 Hours In Cyberspace

BY JOHN C. DOWNEN

Photojournalism goes online.

160

On The Edge: Intrepid Pioneers Test Free Wireless In Rural Schools

BY MARY EISENHART

Spread-spectrum technology offers hope of affordable connectivity to isolated schools.

News & Views

14

Industry Insights

BY PAUL HOFFMAN

Microsoft and the Internet 14
MicroTimes Stock Index 162

22

Realizable Fantasies

BY JIM WARREN

Online debate for presidential candidates.

338

Dvorak's Last Column

BY JOHN C. DVORAK

Apple, *MacUser*, and other weird influences on Dvorak's life.

Business Solutions

46

Pens & Palmtops

BY MITSU HADEISHI

OmniGo enhancements, useful and stupid.

54

Laptops

BY ED KAHN

Faxing on the go; HP's OmniBook 5000.

62

Telecommuting

BY ROBERT MOSKOWITZ

Stages of acceptance of telecommuting.

68

UNIX

BY BENNETT FALK

Zeno's paradox and the Internet services market.

74

OS/2

BY FABIAN PASCAL

True communication speeds under OS/2.

79

Small Office/Home Office

BY BIRRELL WALSH

Tools for planning and consensus building.

90

Creative Business Use Of Email

BY LAURA BELL

How net-based mailing lists can provide an edge for any type of business.

Online Guide

92

Internet

BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Theatrical elements of online discussion.

102

Online Services

BY BILL GRAM-REEFER

Online baseball.

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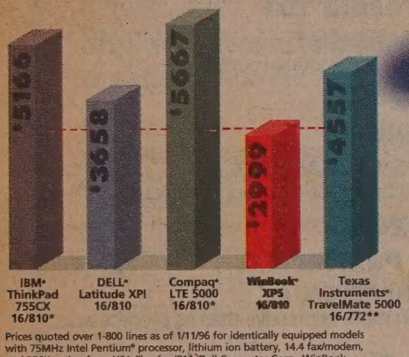

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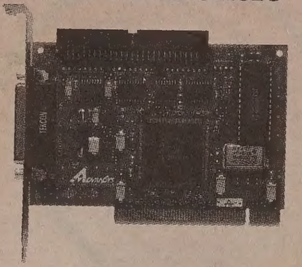

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Contents

MICROTIMES™

February 5, 1996 • Issue #147

Online Guide *continued*

108
Home Page Structure & Design
BY ROBERT MOSKOWITZ
Reading hypertext documents—different, but not necessarily better than standard linear texts.

114
Web Page Listings

Multimedia & Beyond

(Jonathan E.'s Gulch Gossip will be back next month)

232
Multimedia 101
BY JONATHAN E
A jaundiced view of the Voodoo Lounge.

242
Amiga
BY DOUGLAS J. NAKAKIHARA
TuneBuilder makes it easy to tailor music to your presentation.

244
Fractal Painter 4.0
BY TONY REVEAUX
The latest version of Painter is even more impressive than its predecessors.

Resources

290
Calendar Of Events
Media & Democracy Congress 290
Computer Art Classes—Kala Institute 290
From Soup To Nuts Without Going Bananas—Classes For Software Developers 290

312
User Group Network

320
Classifieds

336
Index Of Advertisers

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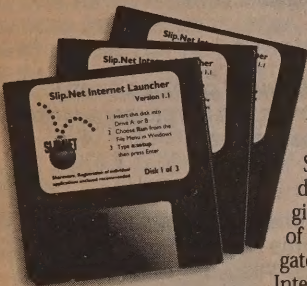

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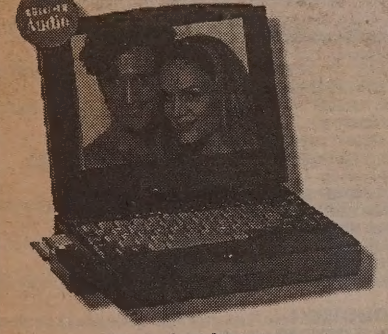

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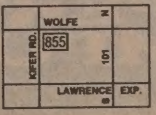

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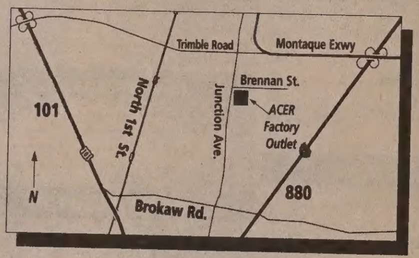

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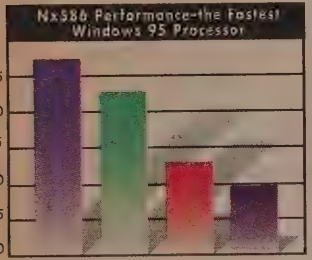

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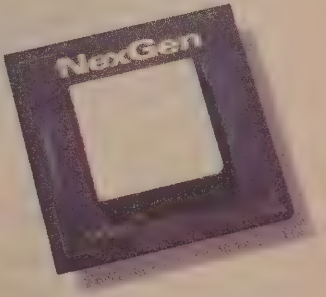

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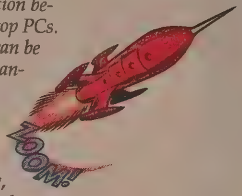

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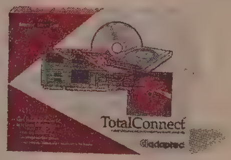

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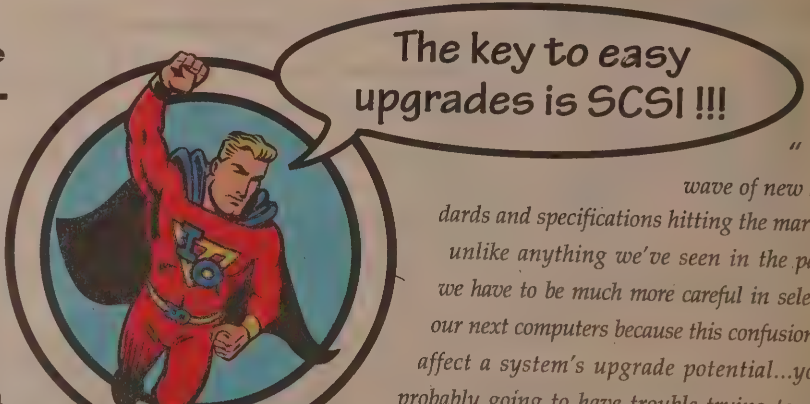
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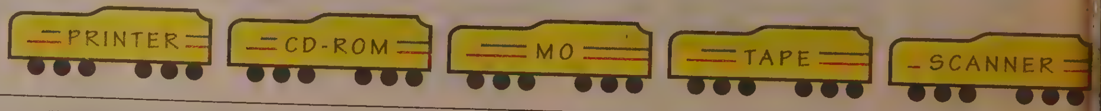

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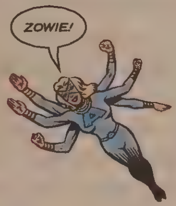

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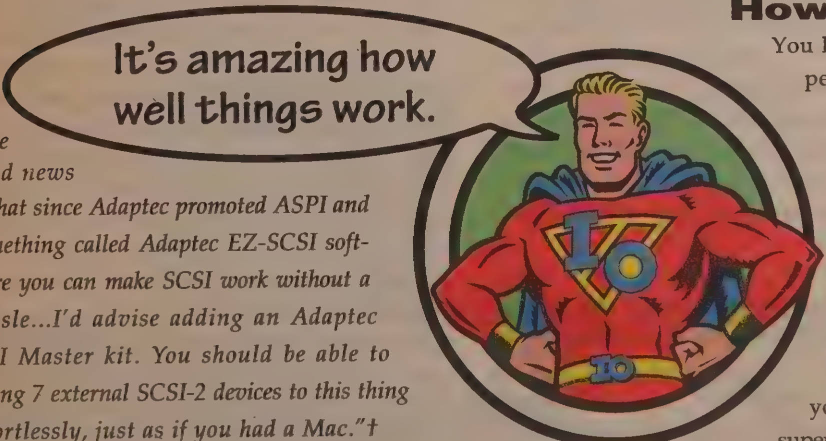
It's amazing how well things work.

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July 1995 PC Magazine

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News and Views

BY PAUL HOFFMAN

Industry Insight

Microsoft Embraces The "Internet=Free" Equation

For most of 1995, many people thought that Microsoft was missing the boat by not having much in the way of Internet software. Everyone wrote their "year in review" articles around Thanksgiving, often saying that the Internet was the big story of the year and Microsoft wasn't part of it.

Then, while all the stories were at the printers, Bill Gates made Microsoft's biggest announcements about the Internet and how Microsoft was going to deal with it in 1996. If the company follows through on Gates' plans, the face of the Internet will change significantly before the end of this year.

Basically, Microsoft wants you to think of the Internet as an extension of your computer. By linking Microsoft's operating systems and applications intimately with the Internet, Microsoft will let anyone who has an Internet connection treat it as just another repository of information. To do this, they're going to give away some of the basic parts of Internet connections for free, making it much harder for companies that sell Internet software to compete.

The History Of Free

For years (actually, decades), most of the best software that ran on the Internet was free. This was partially due to there being so few people using the Internet that you couldn't charge if you wanted to, and partially due to the generosity and good will of the people writing the software. In the past three years, this has changed, and while there is still plenty of excellent free Internet software, more and more of the software is commercial and must be paid for.

The term "Internet software" is pretty vague because there are many types of software involved with helping the Internet run, and the types sometimes overlap. For the typical Internet user, there are three major categories: connection software, client programs, and servers. You also need to find someone who will let you connect through them to the Internet. While some people get free connections through their work or schools, most people must pay for this.

Microsoft has already made the connection software (the programs you use to add your PC to the Internet) free by including SLIP and PPP dialers in Windows 95 and Windows NT. Some companies sell connection software that is of higher quality (faster and easier to manage) than Microsoft's free connection software, but it's usually only sold to large corporations who need central control of the software running on their computers. Further, setting up the SLIP and PPP dialers in Windows 95 is so complicated and involves so many unrelated dialog boxes, it's not clear that Microsoft cares that much about this part of the puzzle.

The December announcements were that Microsoft would provide its Web client, Internet Explorer, free to all its Windows 95 users, and its Web server, Internet Information Server, free to its Windows NT Server users. Clearly, there are many more clients and servers than just the Web: Electronic mail is still more popular on the Internet than the Web. But Microsoft is already giving away an Internet mail client as part of Windows 95, and they have yet to say anything about free Internet mail servers for Windows NT.

Microsoft's other announcements were probably just as important as its free Web clients and servers. Microsoft will continue integrating Web hooks into all their office and consumer products, just as they have with Word for Windows. This means that information being stored on the Internet won't look all that different from information being stored on your hard disk. These extensions will be rolled out over the next year or two.

Is Free Worth More Than Nothing?

The fact that Microsoft's browser will be free might have a big impact on the market leader, Netscape, but not until Microsoft makes its browser much better than it is today. Internet Explorer has a distinctively cheap feel to it, and people who have tried both tend to like Netscape Navigator much better. Netscape isn't free, but they give everyone a ninety-day trial period and don't check up on you. This has led to an inordinate number of people using it as if it were free, but has also garnered more sales than many people thought Netscape would get from such a setup.

Netscape, however, is banking on making much more money on its Web server (and other servers that they sell) than on its client software. Microsoft's announcement that it's going to give away the Web server as part of Windows NT Server might have more of an impact here, except for the fact that no one knows how good the free Web server will be. Having a clunky feel to a Web client is one thing, but having your company's Internet presence being based on hard-to-use or slow server software is completely different. The current Web server market is well-populated

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with lots of high-quality free Web servers, and lots of servers that cost money but are well-supported.

(A bit of self-promotion may be in order here: I've been keeping what seems to be the only list of supported servers and their features for over a year. It is freely available at http://www.proper.com/www/servers-chart.html . You can see that there's more to a Web server than just responding to simple Web requests.)

The free-versus-cost question has been with the software market for almost twenty years. So far, when Microsoft or Apple has added something to the operating system that used to be free, the market responded by making its commercial software better and less expensive to compensate. A few companies may not survive, but rarely has making something free universally eliminated choice for users. Given that Microsoft is making its products free in a market where there is already lots of free competition, it is likely that the main effect is to make users expect more from the things that cost money.

It is widely rumored that Microsoft will be releasing an add-in for Windows 95 (and possibly Windows NT Desktop) that will give the main user interface the feeling of a Web browser. Folders might be to local files, or they might be links to sites on the Internet. Although making the Internet this accessible is certainly a great feature, the security implications of a user not being able to easily tell if a file is local or out on the net are somewhat frightening.

Microsoft's additions of Internet links in all their products will probably be at the normal level of feature creep that you see in most software these days. You'll see Web links and browser-like interfaces on many more packages, all the way down to the now-languishing Microsoft Home software. In the past few years, we've had to live with "Now with multimedia!" stickers on software boxes; this year we'll start seeing "Now with multimedia AND Internet!"

Decaffeinating Java

One of the December announcements that surprised much of the press was that Microsoft had signed a license with Sun Microsystems for its much-hyped Java programming language. Java, which was adopted by Netscape earlier in the year, is a new language that has some advantages over traditional programming languages for creating small programs that will run on users' systems through their Web browsers. Most people assumed that Microsoft would never bow to the market pressure of using the same language that Netscape used for extending their browser.

Well, they still might not make that bow. Microsoft also announced that they intend to compete against Java with Visual Basic Script, a freely licensed subset of Microsoft's popular

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Visual Basic language. Just because the free Microsoft browser works with Java doesn't mean that it won't work much better with VBScript. Many people forget just how many hundreds of millions of dollars Microsoft has made on its programming languages, particularly its low-end languages like Visual Basic.

Although Java has clearly won the most publicity so far, it may be in for tough competition in the next few months. If you are not a C++ programmer, programming in Java will be quite daunting. It is by no means a simple language, unlike Visual Basic. You can do some very nifty things with Java, but it takes a lot of understanding of object-oriented systems and a lot of code. Sun is quite behind its schedule for Java development, and serious Java programming tools are still many months off.

On the other hand, Microsoft already has literally millions of Visual Basic programmers out there, many of whom would just love a part of the Internet pie. Visual Basic is easy to learn and use, and there is an established and thriving market for VB tools, extensions, and premade applications. If Microsoft can get its developers to see the Internet with lots of great VBScript applications before the Java programmers do the same, there will be a demand for VBScript in all Web browsers, including Netscape's.

Even with Java's head start in publicity, VBScript could be a big success if Microsoft puts a major effort behind it. In fact, if the two technologies become available to the majority of the Web at around the same time, it is easy to imagine that VBScript could take over from Java simply because of the built-in code base and the lower learning time for using it. Of course, there will be other factors that will affect how people choose one or the other, particularly as speed of execution and actual levels of security increase (as compared to the announced ones). It would not be surprising if in two years Web applications came in both languages in about equal proportions, just like Web graphics come in both GIF and JPEG formats.

Is The Internet Bigger Than Microsoft?

Even with these strong moves into the Internet, Microsoft could still lose its way and miss the Next Big Thing. The Internet has shown a great ability to ignore dictators and democracies with equal aplomb, branching off in many directions at once just because it could. Microsoft works best in markets where a giant player can have a lot of clout (operating systems and business applications), and generally not as well in markets where size is not well correlated to success (games and the Internet).

Free software from Microsoft will certainly change the landscape, but possibly not to the extent that Microsoft hopes. Internet users are used to free, or at least partially free, and free browsers and servers will have to sit there with other free browsers and software.

The recent moves will probably give Microsoft a great portion of the mindshare on the Internet, but maybe not enough mindshare to bring in much more money. ■

Stock Chart on page 162

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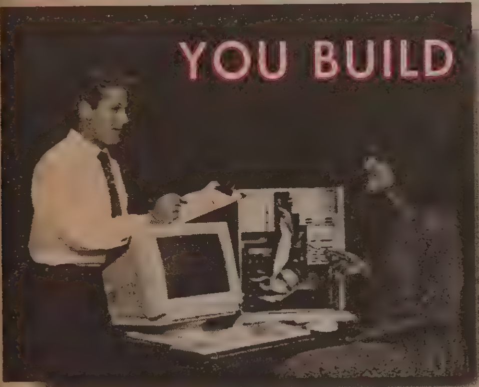

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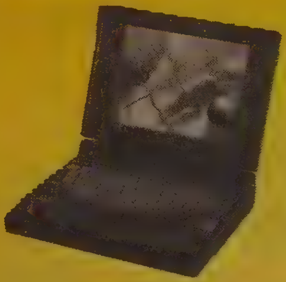

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- **8MB RAM exp to 40MB**
- **256K Cache**
- Power Management feature for greater power savings and longer system use
- VESA local-bus controller
- 1 parallel port
- Support 2 Type II PCMCIA
- EPP / ECP mode support
- Removable 540MB Hard Drive (810MB, 1.35GB optional)
- 3.5" 1.44MB floppy diskette drive
- Trackball pointing device
- Carrying bag and AC/Adapter
- Rechargeable, high energy internal battery packs
- Extended multi-function keyboard
- 16-bit stereo sound system
- **Windows 95 or DOS and Windows 3.11**

7600 Series	75 MHz	90 MHz	100 MHz
10.3" Dual Scan	$2090	$2190	$2240
10.2" Active Matrix	$2340	$2440	$2490

9600 Series	75 MHz	90 MHz	100 MHz
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- **Intel® Pentium 90MHz 2.9v Processor**
- Phoenix BIOS support, plug-n-play
- 256K external cache
- 32-bit PCI Local Bus Architecture
- 32-bit PCI Local Bus IDE
- 16-bit Stereo Audio with 2 Stereo Speakers and 1 Microphone
- **8MB RAM (expandable to 40MB)**
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- 3.5" 1.44MB FDD
- 11.3" Dual Scan or 10.4" Active Matrix 800x600 SVGA LCD Display
- Quad-speed (600KB/sec) CD-ROM
- Integrated Trackpad
- 1 PCMCIA III or 2 PCMCIA Type II slots
- Extra large NiMH Battery
- 1 16C550 Compatible Serial Port
- 1 Parallel Port EPP/ECP mode support
- Other Ports: Ext. Keyboard, Ext. VGA Monitor & 176 Pin Connector for Docking Station
- Jacks - 1 line in and 1 line out
- 86-key Keyboard
- Carrying Bag and AC/Adapter
- Weight: 7.1 lbs with battery
- 11.8" W x 9.1" D x 2.1" H
- **Windows 95 or DOS and Windows 3.11**

Pentium 90MHz 2.9v Power Saving Processor	
11.3" Dual Scan	**10.4" Active Matrix**
$2630	$2920

5200 Series

12.1" TFT/SVGA 4x CD-Rom

- Intel Pentium 75/90/100/120/133MHz CPU
- **8MB RAM expandable to 32MB**
- 256K Seconday Cache Memory
- Removeable 3.5", 1.44MB FDD
- **Built-in 5.25" Quad speed CD ROM**
- **Removeable 540MB HD (810MB, 1.35GB optional)**
- 32-bit PCI Bus Interface with Windows Accelerator
- **On board 2MB Video Display RAM**
- 1 16550 Compatible serial port
- 1 parallel port with ECP/EPP support
- Simultaneous CRT & LCD Operation
- 11.3" Dual Scan Color supports **800x600**
- **10.4"** or **12.1"** Active Matrix Color LCD Display supports **800x600**
- CRT: supports 1280x1024, 256 colors
- 16-bit Stereo sound system
- Built-in Microphone and Speaker
- PCMCIA 2.1 Standard Compliant
- 2 PCMCIA Type II or 1 Type III slot
- Detachable A4 size keyboard
- **Integrated trackpad**
- **Windows 95 or DOS and Windows 3.11**
- Mini Docking Station and External battery (optional)

8MB/540MB	11.3" Dual	10.4" TFT SVGA	12.1" TFT SVGA
Pentium 75	$2570	$2765	$3115
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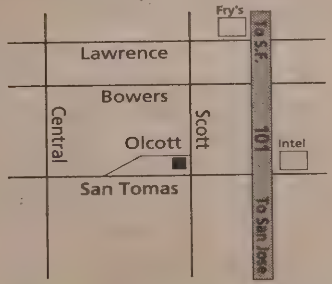

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News and Views

REALIZABLE FANTASIES • BY JIM WARREN

Presidential Online Debates—Update

Support From The Public And The Press Can Make This Happen

The January issue of *MicroTimes* (and of *Boardwatch* magazine) carried my detailed proposal that mainstream presidential candidates participate in different-place, different-time online debates, each to be a week or two in length, before one or more of the major state primaries and before November's general elections.

The *MicroTimes* column was also distributed to my GovAccess listserv (*GovAccess@well.com*), where all updates and progress details are being circulated. Two extensive postings had been distributed by January 3, our press deadline for this issue. Within two days, I had already received statements of active interest from two major regional newspapers, and expect many more.

> **It is as important that you explain and advocate this to your local newspaper editor and political reporter, as it is that you urge candidates to participate.**

I have proposed that the debates be conducted in nonproprietary, freely available secure Web sites supplemented with email access alternatives (the original proposal was to use Usenet newsgroups, however these are too susceptible to forgery, although they will remain available for general public commentary in parallel with the hoped-for debates).

In early January, the proposals were mailed and faxed to all of the campaign managers for all of the Republican presidential candidates who have Web sites and fax numbers, and I initiated the process for creating the needed Web sites and Usenet newsgroups for parallel public comment.

Needs Public Support

The only way this has any chance of happening is if the candidates' campaign managers understand that there is a lot of public interest in having this happen. They need to understand that the candidates who participate in the first online debates will receive significant national print and broadcast publicity, that it will cost them almost nothing in time and nothing in money to circulate their comments to several million Internet host computers—and they need to understand that any candidate who proposes to lead the nation into the twenty-first century should be prepared to use the next century's default-standard medium for communication and information. Now! For active outreach; not just for passive Web sites for random visitors.

You can help! Fax or snailmail your one-page letter of support, now, to each of the major candidates. (Phone requests will have little impact.) Include those you dislike; if they participate, it gives their opponents a better chance to challenge them.

Tell them why they need to participate, and that you will be watching for it and telling everyone you know about their participation—or their absence. Please note that there is no time or expense or schedule excuse for not participating.

Needs Press Support

The candidates will participate in this, most of all, for the publicity. That means that your area's major daily newspaper needs to be willing to cover the debates—assuming that at least one of its reporters has gotten connected.

It is as important that you explain and advocate this to your local newspaper editor and political reporter, as it is that you urge candidates to participate.

Focus On Republicans

Why push for Republicans to debate? Because they are the only nationally recognized, mainstream candidates that (1) will draw national attention to help establish the "tradition" of online debates, and (2) they have a whole batch of contenders who are *hungry* for *any* opportunities to gain press attention, circulate their messages, and prove that they are *competent* to be our first president in the twenty-first century (for a few weeks, at the least).

continued on page 26

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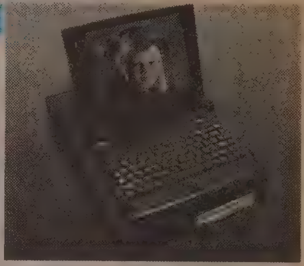

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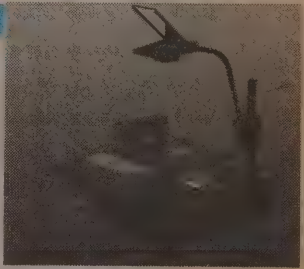

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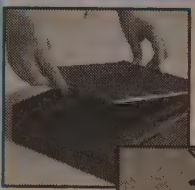

Step 1. Unclip the display's protective back panel and open the display to a 180 degree angle.

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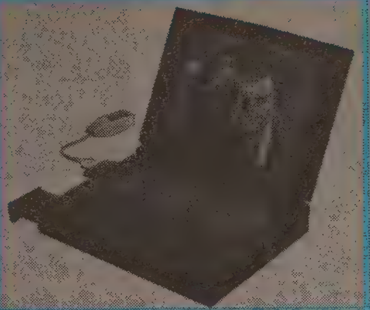

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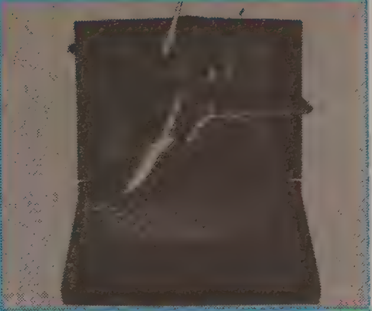

- 486 SubNotebook (MO/DS)
  - Monochrome model uses 486SXLP-25MHz
  - Color model uses 486SXLP-33MHz
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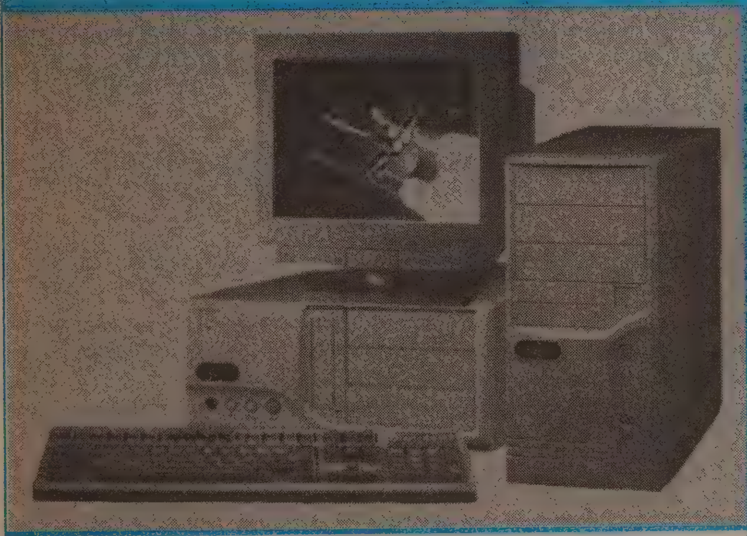

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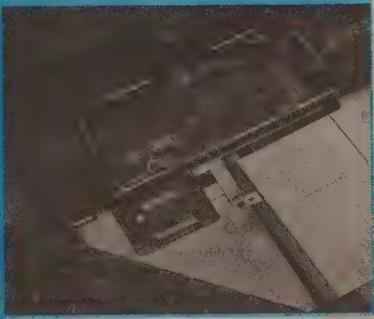

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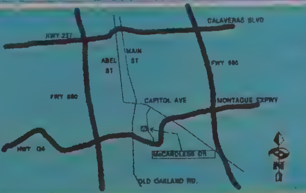

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Realizable Fantasies

continued from page 22

Why not include other party's candidates—Libertarians, Greens, etc.? Only because participation is optional, and the major-party candidates have never been willing to give minor candidates publicity by participating in national debates with them. I am *encouraging* others to set up parallel debates for the other parties' candidates.

But mostly, in short, recognizing that politics is the art of the possible:

I want this to happen *this* year, with *major* national publicity by participants who have a chance of becoming our next president.

Vectors To Republicans

These are the fax and snailmail contact vectors for all of the Republican candidates who have Web pages (which, incidentally, do not usually contain all of this information), listed in Yahoo.

Address your requests to the candidate, "Attention of:" their *campaign manager*. A separate message is also valuable, addressed to the *press secretary*—who is most attuned to the publicity value of such novel (thus, newsworthy) online debates.

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Nashville, TN 37203
fax (615)340-0397
Campaign Mgr., Dan Pero
Press Secy., Dan McLagan

Pat Buchanan
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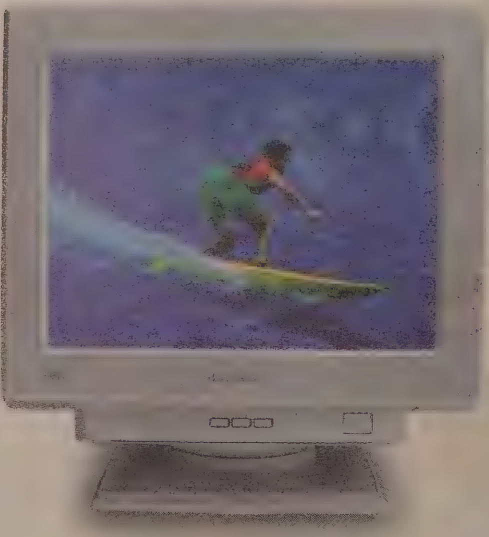

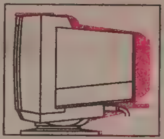

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MAG MXP17F	17"	18.8"	.26 Flat Square	82 kHz	76 Hz	1,299
NEC XP17	17"	19.3"	.28 Flat Square	82 kHz	76 Hz	1,295
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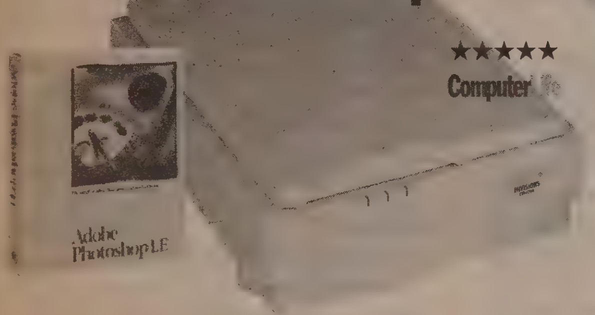

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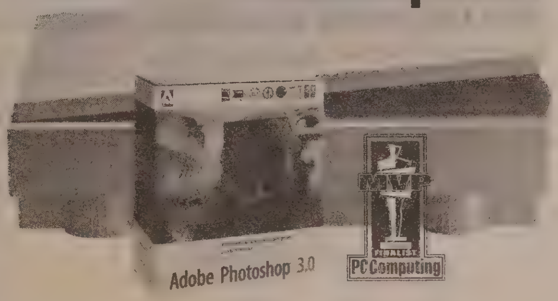

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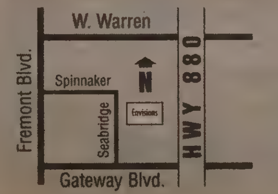

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Arlen Spector and Pete Wilson are not listed since both have dropped out.

The Horse's Mouth

Among other events, Jim Warren will be speaking before the California Association of Licensed Investigators on April 27 in San Jose, CA. For more information, contact CALI's Jim Pell, *JimPell@aol.com* or (408)263-1088. ■

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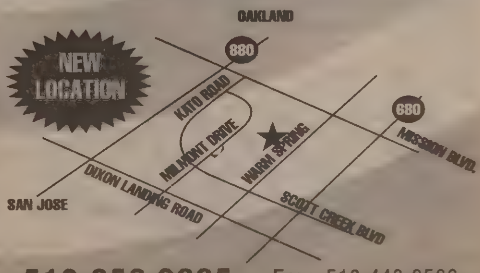

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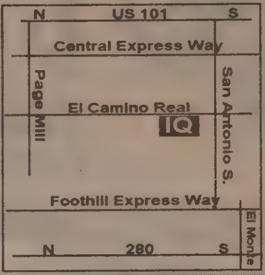

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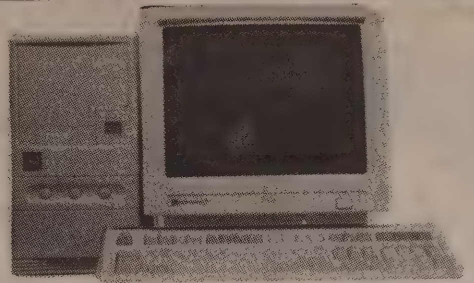

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- Microsoft Compatible Mouse w/ Pad
- **MS-DOS 6.22 & Windows for Workgroup 3.11**

Value Buy

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PENTIUM P-75	199
PENTIUM 66	169
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STEP TWO: SYSTEM CONFIGURATION:
○ INTEL ○ AMD ○ CYRIX ○ NEXGEN ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz & SPEED: ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

FLOPPY DRIVE: ○ 1.44MB
and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External
○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower
○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB
○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal
○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED:
○ 1-5 ○ 5-10 ○ 11+

SPEED
○ 2X
○ 4X
○ 6X

○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number

SOUND CARD
○ 16Bit
○ 32Bit

SPEAKERS
○ Less Than 25W
○ 25 to 50W
○ 50 to 75W
○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono
○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I
○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery
○ Fax Modem ○ CD\MultiMedia

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○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

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STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner ○ Zip Drive

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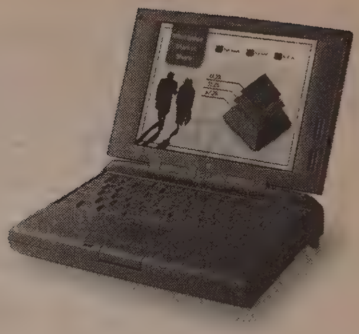

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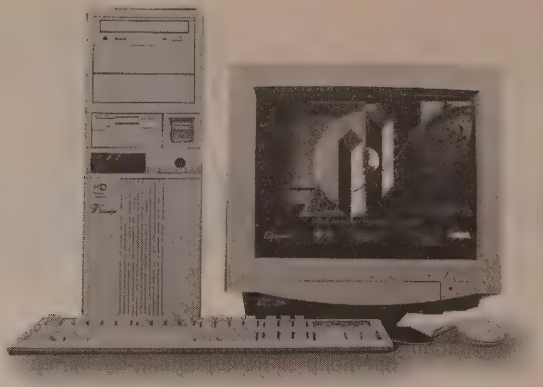

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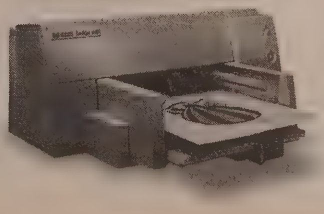

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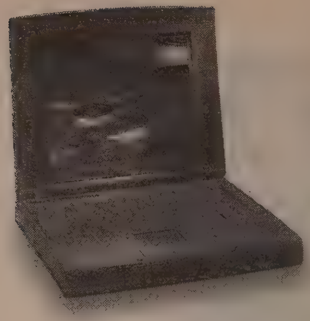

NEC VERSA 2000C

- *486DX4-75MHz*
- *8MB Exp To 40MB*
- *350MB HDD/1.44MB FDD*
- *9.5" TFT VGA*
- *2 Type II or 1 Type III PCMCIA*
- *Internal 14.4 Fax Modem*
- *MS Windows '95*
- *Versa Glide Touch Pad*
- *6.5 lbs*

PN 11302MW............ **$2229**

NEC VERSA 4000C

- *Pentium® 90MHz*
- *8MB Exp To 40MB*
- *540MB HDD/1.44MB FDD*
- *10.1" TFT VGA*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *Internal 14.4 Fax Modem*
- *MS Windows '95*
- *Versa Glide Touch Pad*
- *INT CD Rom*
- *6.6 Lbs*

PN 11602C............ **$4495**

NEC VERSA 4000D

- *Pentium® 75MHz*
- *8MB Exp To 40MB*
- *540MB HDD/1.44MB FDD*
- *10.4" DSTN VGA*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *MS Windows '95*
- *Versa Glide Touch Pad*
- *6.3 Lbs*

PN 41402............ **$3299**

NEC VERSA 4050CD

- *Pentium 90MHz*
- *8MB Exp To 40MB*
- *810MB HDD/1.44MB FDD*
- *10.4" TFT VGA*
- *Built-In CD Rom*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *MS Windows '95*
- *Versa Glide Touch Pad*

PN 11602C............ **$4795**

NEC VERSA 4050H

- *Pentium® 90MHz*
- *8MB Exp To 40MB*
- *810MB HDD/1.44MB FDD*
- *10.4" High-Res TFT VGA*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *MS Windows '95*
- *Versa Glide Touch Pad*
- *6.4 Lbs*

PN 71602............ **$4995**

NEC VERSA 4080H

- *Pentium® 120MHz*
- *8MB Exp To 40MB*
- *1GB HDD/1.44MB FDD*
- *10.4" High-Res TFT VGA*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *MS Windows '95*
- *Versa Glide Touch Pad*
- *6.4 Lbs*

PN 71702............ **$5695**

NEC

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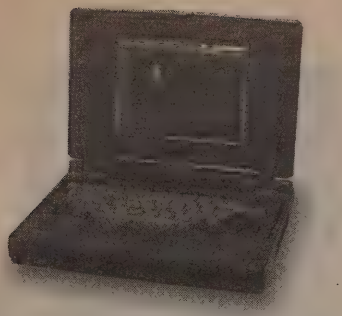

TOSHIBA T2150CDS

- Intel 486x4-75MHz CPU
- 4MB Ram Exp To 28MB
- 520MB HD
- 10.4" DSTN /1MB SVGA
- Acupoint Mouse

PN PA1184U-S2W............**$2595**

TOSHIBA T2110CS

- Intel 486DX4-75MHZ CPU
- 4MB RAM Exp To 28MB
- 330MB HDD
- 10.4" DSTN Color/ 1MB SVGA
- Accupoint Mouse

PN PA1208U-S2W............**$1759**

TOSHIBA TECRA 700

- Intel Pentium® 120MHZ CPU
- 8/16MB RAM Exp To 28MB
- 330MB HDD
- 11.3" DSTN/TFT Color
- 1.23GB Removable HDD
- 1.44MB FDD/16 Bit Sound
- 7.5Lbs

700CS w/ 8MB..............**$4899**
700CS w/ 16MB............**$5999**

MOUNTAIN BIKING
California
New Mexico
Utah

TOSHIBA SATELLITE 410CS

- Intel Pentium® 90MHz CPU
- 8MB EDO RAM Exp To 192MB
- 810MB HDD/1.44MB FDD
- 11.3" DSTN VGA
- 16 Bit Sound & Speaker
- Windows '95
- 7.2 Lbs/3 Year Warranty

PN PA1215U-S6A............**$3499**

TOSHIBA SATELLITE 410CDT

- Intel Pentium® 90MHz CPU
- 8MB EDO RAM Exp To 192MB
- 810MB HDD/Ext 1.44MB FDD
- Internal 4x CD Rom Drive
- 11.3" TFT VGA
- 16 Bit Sound & Speaker
- Windows '95
- 7.4 Lbs/3 Year Warranty

PN PA1215U-TSC............**$4599**

TOSHIBA PORTEGE T610CT

- Intel Pentium® 90MHz CPU
- 8MB RAM Exp To 40MB
- 720MB HDD
- Internal 4x CD Rom Drive
- 9.5" Color/ 1MB SVGA
- 16 Bit Sound Card

PN PA1123U-T9W............**$4049**

***Microsoft Office 95..........$340**
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IBM THINKPAD 755CD

- *Pentium 75MHz CPU*
- *8MB Ram Exp To 24MB*
- *1.2GB HDD/1.44MB FDD*
- *10.4"TFT VGA*
- *Internal CD Rom Drive*
- *Dos/Windows & OS/2*
- *3 Year Int'l Easy Serve Warranty*
  PN 9545FBL........................ **$5429**

IBM THINKPAD 760CD

- *Pentium 90MHz CPU*
- *8MB Ram Exp To 40MB*
- *1.2GB HDD/1.44MB FDD*
- *12.1"TFT VGA*
- *Internal CD Rom Drive*
- *Windows '95*
- *3 Year Int'l Easy Serve Warranty*
  PN 9546U11........................ **$7495**

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AST ASCENTIA 950N

- *Intel Pentium 75MHz CPU*
- *8MB Ram Exp To 40MB*
- *500MB HDD (DSTN)/800MB HDD (TFT)*
- *SoundBlaster 16 & Speaker*
- *10.4" DSTN/TFT VGA*
- *MS Windows '95*
- *3 Year Warranty*
  DSTN *PN 501744–201*............ **$2659**
  TFT *PN 501744–301*............ **$2949**

AST ASCENTIA 950NLM120

- *Intel Pentium 120MHz CPU*
- *8MB Ram Exp To 40MB*
- *800MB HDD (DSTN / 1.2GB HDD (TFT)*
- *SoundBlaster 16 & Speaker*
- *11.8" DSTN/TFT VGA*
- *MS Windows '95*
- *3 Year Warranty*
  DSTN *PN 501898–301*............ **$4629**
  TFT *PN 501898–401*............ **$5069**

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HD COMPUTER

EPSON - ActionNote 880C

- 486DX2-80MHz CPU
- 8MB Exp To 24MB
- 340MB HDD/1.44MB FDD
- 10.3" DSTN Color/1MB SGVA
- 14.4 Fax Modem
- 16 Bit Sound
- MS Dos/Windows
- 6.0 Lbs

A544201........................**$2295**

EPSON - ActionNote 880CX

- 486DX2-80MHz CPU
- 8MB Exp To 24MB
- 700MB HDD/1.44MB FDD
- 10.4" TFT Color/1MB SGVA
- 14.4 Fax Modem
- 16 Bit Sound
- MS Dos/Windows
- 6.0 Lbs

A536211........................**$3295**

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ACER - AcerNote PRO

- Intel Pentium® 75MHz CPU
- 8MB Ram Exp To 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN/TFT Color
- 1MB PCI SVGA
- Ergonomic Touchpad
- MS Windows '95
- 6.4 Lbs
- 3 Year Limited Warranty

954 **Dual Scan**........................**$2409**
957 **Active Matrix**....................**$2909**

ACER - Power MT

- Intel Pentium® 133MHz CPU
- 8MB Ram Exp To 128MB
- 1.6GB HDD/1.4MB FDD
- S3 968 PCI SVGA W/2MB VRAM
- Mini Tower Case
- 101 Key Keyboard & Mouse
- MS Dos/Windows/Office
- 3 Year Limited Warranty

PN 9348..............................**$2879**

***Microsoft Office 95**...........*$340*
*Only w/system sale

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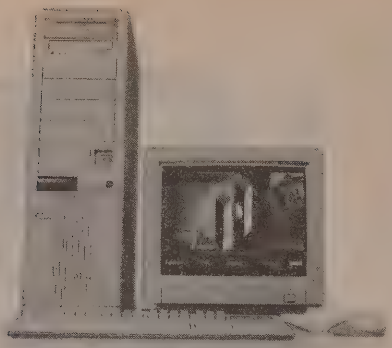

Victoria™ WHITE
PENTIUM PRO® SERVER

- Asus Pentium Pro® w/256K Cache Motherboard
- Intel Pentium Pro® CPU
- 16MB Ram Exp. to 512MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 101 Key Enhanced Keyboard
- Seagate 2.0GB SCSI Hard Disk
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/1MB
- Full Tower Case w/230 W Power Supply
- 15" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- HP 1534ADAT 2.0 GB SCSI Tape Back-Up
- TOSHIBA 3701 SCSI 6X CD-ROM
- 3COM 3C590 PCI Combo Ethernet Card
- Microsoft Bus Mouse & Mouse Pad

150MHZ	**$5195**
180MHZ	**$5395**

Victoria™ MAGENTA
CAD STATION

- Asus Triton Pentium Motherboard
- 256K Pipeline Cache Exp To 512K
- 32MB EDO RAM Exp To 128MB
- Mid Tower Case w/230W Power Supply
- 101K Enhanced Keytronic Keyboard
- Teac 1.44MB 3½" Floppy Disk
- Seagate 2.0GB Enhanced IDE Hard Disk
- PCI Enhanced IDE Controller
- 2-16550 Serial & One Par Port
- Matrox MGA Millenium PCI w/2MB WRAM
- ViewSonic 17PS 1600x1280 .25 Monitor
- Summasketch III 12x12 4 Button Digitizer
- Teac Internal 6x EIDE CD-ROM
- MS DOS 6.2 & Windows for Workgroups

133MHZ	**$3795**
150MHZ	**$3895**
166MHZ	**$4095**

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ONLINE SYSTEM

- Zappa Pentium® w/256K Cache Motherboard
- Intel Pentium® Processor
- 8MB Ram Exp. to 256MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 101 Key Enhanced Keyboard
- 1.2GB Enhanced IDE Hard Disk
- PCI Enhanced IDE Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/2MB DRAM
- Mid Tower Case w/230 W Power Supply
- 15" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- TOSHIBA 4X Enhanced IDE CD-ROM
- Sound Blaster 16 + 50 Watt Stereo Speaker
- Microsoft Serial Mouse & Mouse Pad
- Microsoft Windows 95
- NetScape Navigator 1.2
- 28.8 Internal Fax/Modem

100MHZ	**$1995**
120MHZ	**$2095**
133MHZ	**$2195**
150MHZ	**$2295**
166MHZ	**$2495**

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HD COMPUTER

Victoria™ GRAY

- *Intel Zappa Triton Motherboard w/256k Cache*
- *Intel Pentium® Processor and CPU FAN*
- *16MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *1.6GB EIDE Hard Drive*
- *17" Non-Interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/2MB VRAM*
- *28.8 INT Fax/Modem*
- *ON Board PCI Enhanced IDE Controller*
- *2-16550 Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft Windows 95*
- *QUAD Speed IDE CD ROM*
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- *MS Works*
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- *MS Entertainment Pack*

100MHZ	**$2595**
120MHZ	**$2695**
133MHZ	**$2795**
150MHZ	**$2895**
166MHZ	**$3095**

Victoria™ RED

- *Intel Zappa Triton Motherboard w/256k Cache*
- *Intel Pentium® Processor and CPU FAN*
- *8MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *1 GB SCSI Hard Drive*
- *15" Non-Interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card w/2MB DRAM*
- *28.8 INT Fax/Modem*
- *Adaptec 2940 PCI SCSI Controller*
- *2-16550 Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft Windows 95*
- *Six Speed EIDE CD ROM*

100MHZ	**$2095**
120MHZ	**$2195**
133MHZ	**$2295**
150MHZ	**$2395**
166MHZ	**$2595**

Victoria™ BLUE

- Pentium® Chip-Based Motherboard w/256k Cache
- Intel Pentium® Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.0GB SCSI Hard Drive
- MAG DX 1595 Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card w/2MB VRAM
- 28.8 INT Fax/Modem
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95
- Six Speed SCSI CD ROM

100MHZ	**$2395**
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- Quad-Speed CD ROM Drive
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TOSHIBA 3701 6x SCSI	$329

SONY

CSD-760S 4X Speed SCSI w/Adaptec 1515	$199
PRD-A50 Portable CD ROM, CD Player	$399

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Sound Blaster 16 Value Edition	$94
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Sound Blaster AWE 32 PNP	$239
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Modem Blaster 14.4 PCMCIA	$159
Modem Blaster 28.8	$159
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Endeavor w/512k Pipeline	$369
Endeavor w/256k Pipeline	$299
Endeavor w/256k	$289
Zappa w/256k	$219

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Dual Pentium EISA PCI w/256k	$699
Dual Pentium ISA PCI w/256k	$399
Triton w/256k Pipeline	$219
Triton w/256k	$199
486 PCI VLB w/256k	$149
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DIAMOND

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MATROX

MGA Millennium PCI 2MB WRAM	$329
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Spider Turantula Lite PCI w/2MB	$149

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2940UW Ultra Wide PCI	$299
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IIYAMA MONITOR

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FC-20 Controller	$89

MOUSE

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Sportster 14.4 INT/EXT	$89/105
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SYSTEM	☐ AMD 486 ☐ INTEL 486 ☐ INTEL PENTIUM ☐ P-6 ☐ NexGen 586
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz ☐ 166 MHz ☐ 180 MHz
BUS FOR PENTIUM®	☐ PCI/ISAz ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISAz ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 12 MB ☐ 16 MB ☐ 24 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 101 KEY ☐ MS NATURAL ☐ 104 KEY
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 1.6 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1P
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 1.44 K ☐ 28.8K
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
SOUND CARD	
MOUSE	☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ WINDOWS 3.11 FOR WORKGROUP ☐ OS/2 ☐ WINDOWS 95 ☐ WINDOWS NT ☐ DOS 6.22 & WINDOWS 3.11
NETWORK CARD	☐ ISA ☐ EISA ☐ VLB ☐ PCI
OPTIONS	________________

MAKE AS MANY COPIES AS YOU NEED FOR FRIENDS AND COLLEAGUES. THANK YOU.

Simply circle or fill in the items you would like included in your system and fax it and HD will do the rest.

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Stupid OmniGo Tricks

A Further Examination Of Its Features And Abilities

As I reported in my last column, Hewlett-Packard and Geoworks, Inc. have teamed up to produce an intriguing new handheld based on the GEOS graphical operating system. The HP OmniGo 100 sells for between $325 and $350 street; it comes with 1MB of RAM, and includes a sophisticated object-oriented GUI, Graffiti handwriting recognition, a versatile combination keyboard- and pen-based interface, a host of standard personal information management functions, and an extensible, standardized handheld operating system.

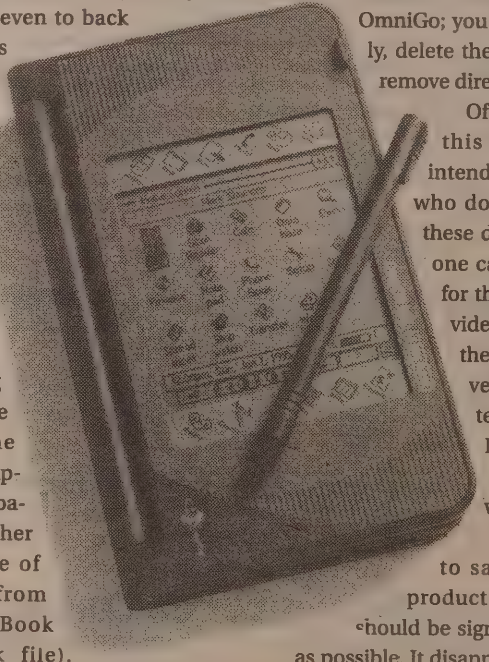
This month I will go over a number of optional accessories, third-party hardware and software add-ons, shareware, and special "tricks" for getting more out of your OmniGo.

HP Connectivity Kit

This is unfortunately one of the weakest points of the system. Despite my general positive impression of the machine, I would have to say this particular product leaves much to be desired (and I'm being charitable). The software lacks many essential functions, and is so poorly implemented as to be almost useless for many very important connectivity applications.

Many OmniGo users have purchased this hardware/software combination, intended to provide OmniGo-PC connectivity, and have been sorely disappointed, as is clear from perusing the various handheld-oriented newsgroups and discussion groups on the net. The worst failing is this: although the OmniGo itself provides an appointment book, a database, a notepad, a phone book, and spreadsheet applications, the connectivity kit only supports the appointment book, notepad, and phone book. This means the database and spreadsheet applications are completely orphaned; there is no way to read, back up, convert, or view database and spreadsheet information using the software included in this kit.

This is an even worse failing given the fact that many users (including myself) might not want to use the built-in phone book, since it provides an awkward field layout, spreading address information over two screens (and there is no way to easily scroll between the two screens without using the pen). Instead, I had input my addresses into the database application, and I now find there is no way to import or export that data, or even to back up my database files using this product.



Even for the applications that are supported, data import, export, and conversion facilities are sorely lacking. The only applet that is supported by any sort of importing capabilities is the phone book; the appointment book supplies *no* importing capability whatsoever (other than the trivial one of importing data from another OmniBook appointment book file). Users who would like to enter their appointment book information from another PDA have to do so by hand. There's also an anomaly in which extra characters appear to be added to some notes when certain types of files are transferred.

In addition to the absence of the basic functionality one would expect to have in such a product, the kit fails to provide advanced functionality that sophisticated users would want and expect: for example, there is no way to copy files to and from specific directories on the PC and on the OmniGo. Clearly the intent is to prevent confusion, but it also prevents many other important things, such as easy installation of shareware applications. If you want to install third-party shareware that has not been configured to be automatically installed using the Installer applet, this kit will not help you. You cannot see the directory structure of the OmniGo; you cannot transfer files directly, delete them, rename them, create or remove directories, etc.

Of course, the justification for this is that the OmniGo is intended for the "organizer" user who doesn't want to know about these details. I would suggest that one can make the interface easy for the casual user, but also provide additional functionality for the advanced user. A lot of the versatility and power of systems like the Psion 3a or the HP 200LX come from the copious third-party shareware available for them.

Overall, I would have to say that this connectivity product is a qualified failure, and should be significantly improved as soon as possible. It disappoints not only the sophisticated, advanced user but even the naive user; all will be baffled that they cannot back up and translate their spreadsheet and database files to their PC applications.

Registered users of this product should get a free upgrade to a more useful piece of software. The Clip & Go product, also available for the OmniGo, does support the spreadsheet applica-

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tion and might be an alternative; it does not come with a cable, which can be purchased separately. I would recommend to the more adventurous that they simply not purchase the Connectivity Kit at all, but rather utilize a shareware file transfer program with a serial cable, available for the OmniGo for a lot less than the $100 that users are currently being overcharged for this. A shareware file transfer program, while more difficult to use, at least will allow you to back up all the information in your PDA, as well as enable you to install and use shareware and freeware programs. It will also save you some money.

I hesitate to criticize HP or Geoworks, or even Palm Computing, the writers of the kit, for the shortcomings of this product; I do not know who specifically is responsible for it. It has the feel of a product that was released before it was ready. But regardless of who is responsible, the kit is an unfortunate weakness in an otherwise fairly rosy OmniGo story.

Where Oh Where Has My Memory Gone?

One of the complaints of early adopters of the OmniGo is the relative lack of available RAM in the machine. A new machine starts with about 330K of free RAM, but this can be rapidly depleted as you use your machine. Where does all the memory go? Can you alleviate the problem by adding SRAM cards?

Well, first of all, a lot of the RAM is not going to data, but to little files called "state files," which keep track of the running applications. The more applications you have running, the less RAM you will have available.

One way to reclaim some of this memory is to do a "soft reset" of your unit. (Be careful: doing a soft reset may cause you to lose any unsaved data in applications, so be sure to exit and save every application before trying this.) As mentioned in the user manual, you can do a "soft reset" of the machine (equivalent to CTRL-ALT-DEL on the PC) by pressing the left SHIFT button, the ON key, and the NEXT key at the same time (SHIFT-ON-NEXT). This will reboot the machine, clear all state files, and you should still have all of your saved data available.

The OmniGo is not always particularly frugal with memory. Some of the applications, like the Jotter and the Spreadsheet, are memory hogs, taking up large amounts of memory for relatively small amounts of data. If you have a particularly large address book, or lots of text notes, you might easily run out of the limited memory that comes with the OmniGo.

Unfortunately, it's not quite as easy as one might expect to add memory to the OmniGo and just use it directly. Again, this is due to a large extent to the "dumbed down" architecture of some of the built-in applications, which, in promoting a somewhat dubious "ease of use," has prevented certain things that should be quite intuitive (such as adding memory) from being quite as simple as they should be.

Naive users might expect to simply add a

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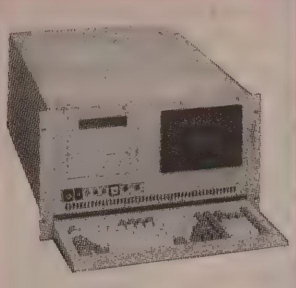

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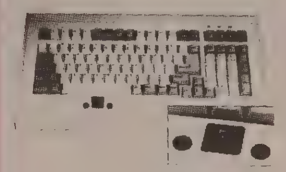

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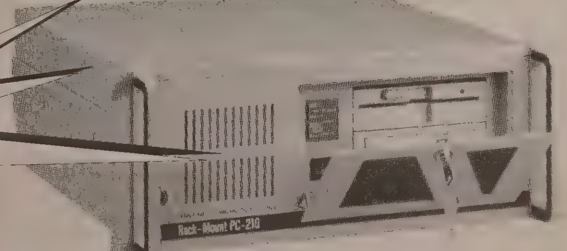

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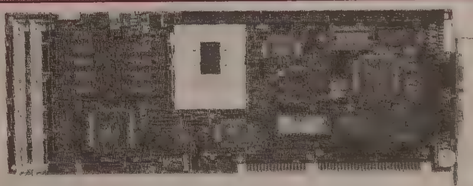

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memory card and tell the address book or appointment book to store their files on that card. The problem is that there is no easy way to instruct these applications to do this.

However, there is a workaround, confirmed by Stewart Noyce, director of marketing at Geoworks. This enables the sophisticated user to dramatically expand the amount of memory available for the built-in applications.

The detailed procedure is somewhat involved, and I would recommend that only the advanced person attempt this. However, essentially, if you create a file first on the internal RAM disk and then move it to an external card in the corresponding directory (deleting the original copy on the internal disk), after you do a soft reset (see caution above about saving data before resetting the machine) the software will recognize the data on the external card and use the file there. This sounds relatively easy except the OmniGo has no built-in file manager, and there is currently no such application available to the public. (For more detailed instructions, see the OmniGo FAQ, which is periodically posted to comp.sys.palmtops). It is possible to do this with a shareware file transfer application, however. It is unfortunate that an intuitive interface for expanding the memory accessible to built-in applications was not provided.

The basic problem remains for this machine: Although it could have been positioned as a Psion-killer, undercutting the Psion and the HP 200LX in price but equalling or even besting them in performance, the OmniGo falls short of that goal due to artificial limitations such as those I mention above, poor design of the transfer application, and other shortcomings. Although the basic architecture of the machine is sound, and the Graffiti handwriting recognition and the dual keyboard/pen input modes make the unit superb from an operating system and hardware point of view, certain completely unnecessary design limitations hamper the potential of the machine and may well prevent it from becoming the true star it might otherwise be.

All of these problems could be addressed by either software upgrades or enhancements from third parties, but it would have made a much stronger opening for the machine had it been released initially with more care given to providing functionality for more sophisticated users.

Programming Options

One of the nice things about units like the 200LX and the Psion is the wide variety of freeware and shareware applications available for them. The 200LX of course benefits from the library of DOS applications that will run on the machine unmodified; the Psion from over a thousand applications that have been written for the machine. Although the Psion uses a proprietary architecture and operating system, it does have one advantage: OPL, a programming language built in to the machine that allows you to write programs easily. I have even seen vt100 terminal emulators written in OPL (although they are rather slow).

For the OmniGo, John Feras of Feras Information Technologies has written a token-

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based interpreted language called IZL that allows you to write your own programs, just like OPL on the Psion. Programs written in IZL are distributed with an IZL interpreter, which is also available free on many bulletin board systems as well as comp.binaries.geos . One of the most useful aspects of the shareware package is a file transfer application called OmniComm, which allows you to do simple file transfer and management on the OmniGo. With this program you can copy, rename, delete, and transfer files to and from the PC, all with just an inexpensive serial link cable available from HP. This allows you to install shareware IZL programs as well as manage the file structure of your OmniGo (it would be better to have a real file manager, but this is better than nothing).

IZL is a BASIC-like language with a simple, understandable syntax. It is interpreted so it is rather slow, but it is possible to access most of the features of GEOS from the language. Though the interpreter is free, to write your own IZL programs you need the compiler; which is available directly from John Feras for $59.

New Sharp Zaurus

Next month: At COMDEX 1995, Sharp announced new versions of its popular Zaurus organizer, the ZR-5700 and 5800 series. The enhancements include a built-in pen-based spreadsheet, a backlit screen (in the 5800 series), more expansion capabilities, and a great number of minor improvements to the built-in software. These machines should be available by the time you read this. More on this machine in next month's column. ■

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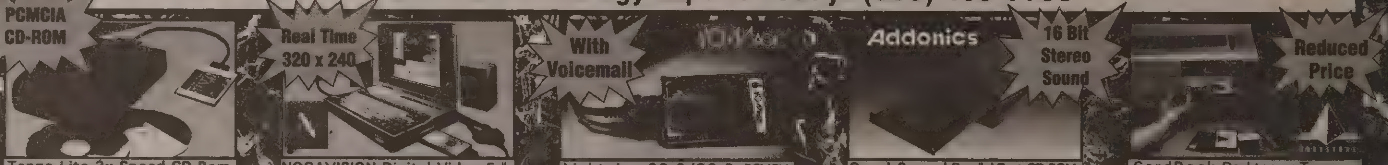

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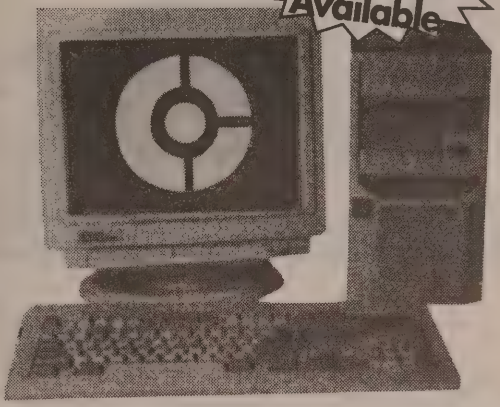

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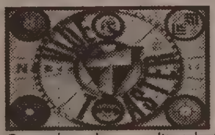

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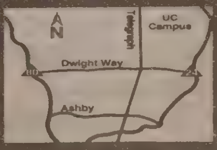

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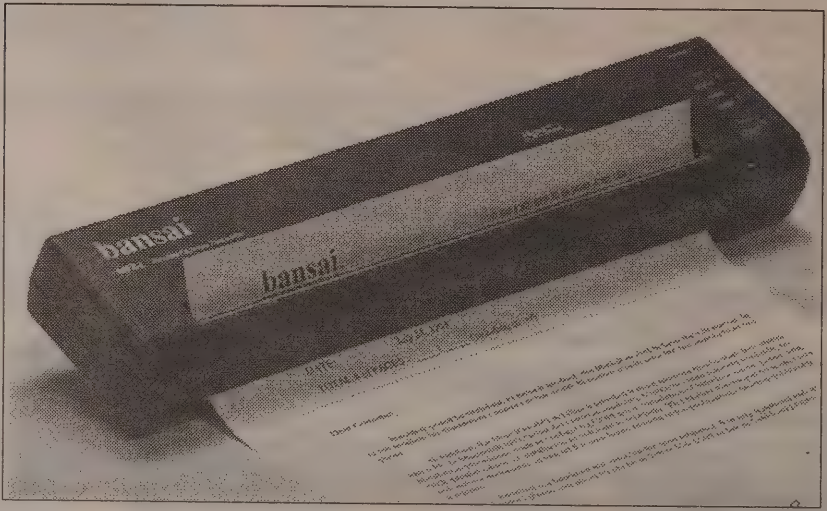
Faxing On The Go

The Bansai MFX-1 Is A Lightweight, Send-Only Fax For People Away From A Bulky, Full-Feature Fax Machine



The fax machine has become a staple of the business world. Portable computer users have a number of options for faxing while away from their fax machine. Software that works with a fax/modem works well for documents created on the computer, but travelers are still faced with the problem of how to fax other kinds of documents. One solution has been to use commercial fax stations found in hotels or copy shops. But this is hardly what one would call convenient. Now there is a scanner on the market that serves the specific purpose of faxing documents. The Bansai MFX-1 essentially is a send-only fax machine and works great for this purpose.

The philosophy behind the Bansai MFX-1 is that receiving faxes is not really a problem—even if you don't have a printer handy you can read the fax on the computer screen. But a bottleneck occurs when sending because up until now there has been no simple way to capture a document.

The Bansai connects between the telephone and the telephone jack. You dial manually and press the start button when the fax line answers. It is that simple.

The Bansai measures less than 11.25" x 2.5" x 1.4" and weighs just 20oz. At present the unit requires a power supply. Shortly there will be a battery pack ($69) that will accommodate up to 120 faxes between charges. One of the great things about this system is that you do not need to have a computer to send faxes from the Bansai. Simply plug into a phone line. The system, however, works wonderfully with a computer. It lets you scan documents into the computer and store them as fax documents. You just plug the device into the phone jack of the modem and set your computer software to manually answer. Bansai ships with a copy of Delrina's FaxLite software, but you can use any other fax software to receive files from the Bansai.

Software that works with a fax/modem works well for documents created on the computer, but travelers are still faced with the problem of how to fax other kinds of documents.

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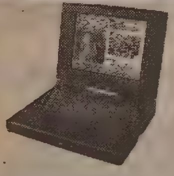

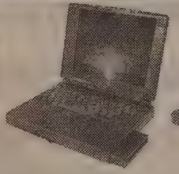

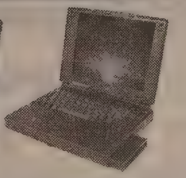

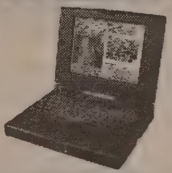

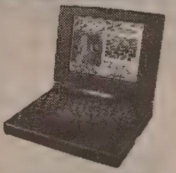

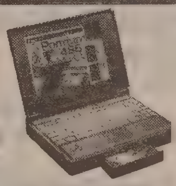

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Bansai sells Recognita Plus, an OCR software package ($49) that will convert the faxed documents into text files that you can use with your word processor. While most word processors are supported, the list lacks some of the most recent versions of popular word processors.

Bansai also offers various accessories that add versatility to this fax machine. An acoustic coupler ($119) lets you connect the Bansai to pay phones or in hotel rooms that make it too difficult to connect directly to the wall. A car adapter ($19.95) lets the Bansai operate from a 12V system. The Bansai works from cellular phones, so the car adapter makes sense for some users. Foreign travelers may want to get the international AC adapter ($34.95). A leather carrying case ($29.95) is also available.

While the Bansai fills a niche that was waiting for the right product, I still see room for improvement. If you want to include a header in your fax, it is a cumbersome process of hitting just the right combination of keys to program in the header information. If you mess up, you must start all over again. Each day, it needs to be reprogrammed if you want to include a date in the header.

> **The philosophy behind the Bansai MFX-1 is that receiving faxes is not really a problem—even if you don't have a printer handy you can read the fax on the computer screen.**

Even though I find a few minor weaknesses in the design of the Bansai, the MFX-1 is a valuable product that answers a definite need. ■

RESOURCES:

Bansai MFX-1 MicroFax, $379
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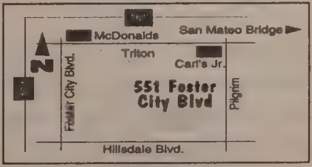

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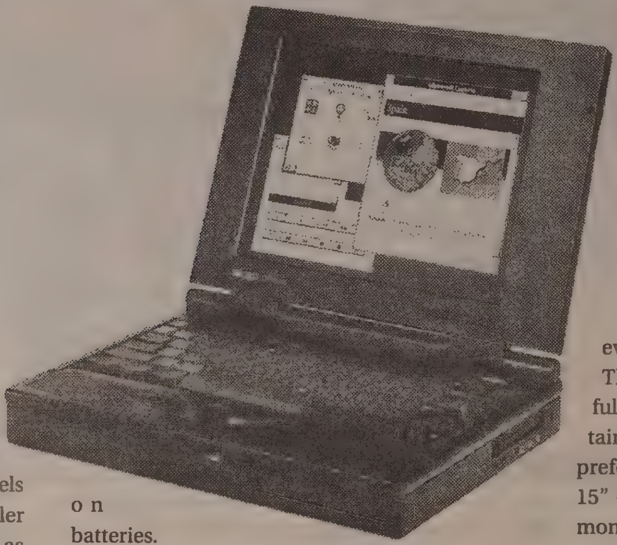
Computer Of The Month

Hewlett-Packard OmniBook 5000



Hewlett-Packard has long been a leader in small computers. Early on they introduced a line of palmtops that revolutionized that market and still sell well. Next they brought out subcompact models that were larger than the palmtops, but smaller than notebook computers. They were as small as they could be while still having a standard-size keyboard. The palmtops were great for number crunching, but too small for word processing. The subcompacts filled a niche.

Now, Hewlett-Packard has introduced its first full-fledged notebook computer and it is wonderful. The OmniBook 5000 has just about everything I want in a real notebook with the possible exception of a trackball instead of a touchpad, which I prefer. But this is a relatively small criticism. The OmniBook 5000 weighs 6.8lbs. and measures 11.6" x 8.9" x 1.93" including its rechargeable lithium ion battery pack (extras $249).

Hewlett-Packard has introduced its first full-fledged notebook computer and it is wonderful.

Powered by a Pentium 90 processor, it comes standard with 8MB of RAM, expandable up to 64MB. The standard hard drive is 540MB, but a 1.2GB drive is also available ($800 extra). The motherboard is 32-bit PCI and is complemented by a plug-and-play BIOS. The quad-density floppy drive is removable, leaving you room for an additional battery pack, which doubles the operating time to up to seven hours on batteries.

The keyboard is comparable to the best portable keyboards. While it cannot compare to a good standalone keyboard, it does the job well. Since this notebook comes standard with Windows 95, I must confess to missing the special Windows 95 keys that are available on certain external keyboards. These keys let you hotkey into applications and other shortcuts. This convenience is pretty easy to get accustomed to once you begin to use it. You can, however, attach another keyboard through the port on the back of the notebook. You can also attach a mouse if you don't like the built-in trackball. My preference when not on the go is to connect an external keyboard, mouse, and monitor so I can feel like I am working on a regular desktop system. An optional docking station ($699) provides slots for two ISA cards, making it even more like a desktop computer.

The OmniBook 5000 comes with a wonderfully clear 10.4" color display. While this is certainly good enough for on-the-go work, I still prefer an external monitor measuring at least 15" diagonally. It is easy to attach an external monitor through the video port.

There are lots of ways of getting information in and out of this computer. In addition to the serial and parallel ports, Hewlett-Packard included an infrared port. It lets you send files to any other computer or peripheral equipped with an infrared reader, such as Hewlett-Packard's palmtop computer. There are also third party devices that let you send infrared files directly to certain printers.

There are also two PCMCIA slots that can support two Type II devices or a single Type III card. Lastly, there is a SCSI-2 port for connecting a CD-ROM player or other peripherals. The OmniBook is designed to handle multimedia: There are ports for speakers and a microphone as well as built-in stereo speakers and a microphone. The sound system is Sound Blaster compatible.

One of Hewlett-Packard's innovative features—also available on its other small portable computers—allows you to simply turn the computer off when you are done working and return to exactly where you left off when you continue working. This arrangement saves time

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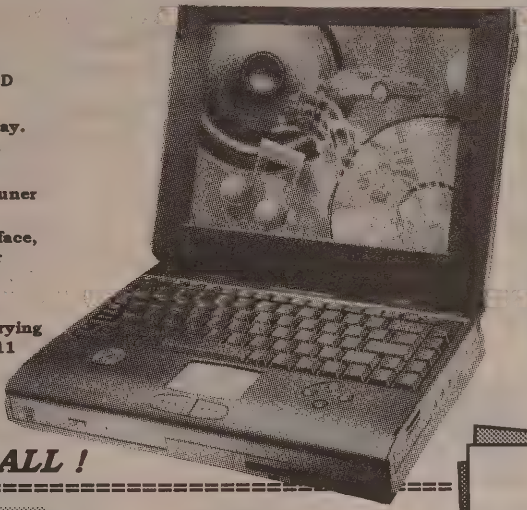

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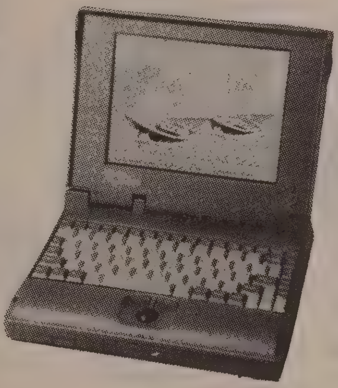

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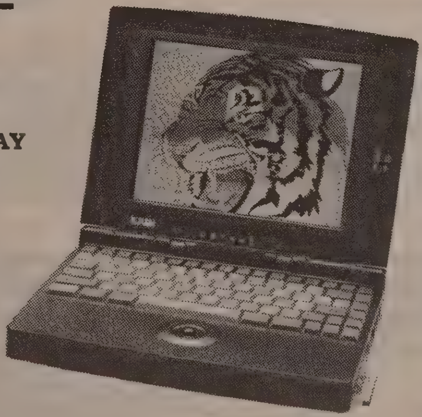

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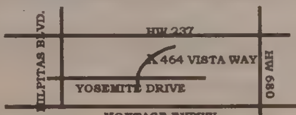

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and battery life as you do not have to reload everything every time you start up. This computer has the same arrangement. The battery is slowly drained, keeping this information in memory. Thus, if you plan to leave the computer for weeks, it is recommended that you save the entire screen and setup to a hard disk. This is easily done by pressing Fn+F12. This makes an image of the setup and saves it for the next time. Then, even if the battery runs down, you will lose nothing.

The OmniBook 5000 is bundled with an array of software. When you set the system up for the first time, you are offered the choice of Windows 95 or Windows for Workgroups—not both. After that, you will get a tour of the system and its applications. Unlike many other computers, the documentation is almost entirely on the hard drive. At first, I thought I wouldn't like that because it is not possible to browse. But after I got started I found that it was easier than using printed documentation because you can click from place to place. In addition to the tour, there is a built-in appointment book, phone book, and Hewlett-Packard financial calculator. I like these applications, but, as usual, Hewlett-Packard has designed them so you cannot import into them. This stops me cold in my tracks, as I am not about to reenter all of my addresses into any software.

Hewlett-Packard has tried to think of almost everything else. On the rear right, they have a place to attach a Kensington security cable. This device lets you fasten your portable to a table leg or other secure place where nobody can easily pick it up and carry it away. This, of course, is in addition to password protection and other devices designed to discourage others from using your machine.

I like Hewlett-Packard products across the board. If the OmniBook 5000 is within your price range, check it out. It is a terrific notebook from a terrific company. A three-year warranty protects your investment. ■

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Stages Of Telecommuting Acceptance

Knowing What Stage You're In Helps You Determine What Particular Progress To Expect, And To Push For, In The Coming Weeks And Months

With years of experience under our collective belt, it's now possible to look back and begin to see the stages of development through which telecommuting grows in a typical organization.

These stages include the tentative first steps of individual telecommuters or pilot programs, followed by relatively elaborate formal arrangements for relatively few telecommuters, then a phase of accelerating growth in the number of telecommuters and the scope of their responsibilities, and finally an acceptance or "end-stage" phase.

Let's look at each of these stages in a little more detail:

Tentative First Steps

Few organizations are formed with the idea of relying on telecommuters. Instead, the tendency is to expect people to show up for work every business day, and stay until they've "finished for the day."

But under the pressure of increased costs, more complex workforce requirements, accelerating time frames, shortening delivery schedules, and urban sprawl, in the past decade or two most organizations began looking hard for new ways to operate more cheaply, flexibly, and productively. Many found a good answer in the realm of telecommuting.

If management had a relatively far-sighted outlook, they tended to push the organization toward telecommuting by commissioning one or more pilot programs. Although these might not be widely publicized within the organization, even at this early stage there is almost certainly a group of pro-telecommuting managers somewhere within the organization. And this group's knowledge and energies can be tapped to help the organization advance toward later stages of development.

If management had a relatively short-sighted outlook, they tended to do very little and instead allow individuals to pull the organization into the modern age by insisting on telecommuting and—whether because of their status or indispensability—making their demands stick. These individuals, or "guerrilla" telecommuters, might not be visible to the vast majority of employees. But they are slowly and surely laying the groundwork for later advances in the organization's acceptance of telecommuting.

> **When the organization is making a lot of money, it doesn't feel the urge to break new ground just to cut costs.**

In any case, year after year of successful telecommuting tends to yields enough tangible benefits for almost any organization to recognize this modular mode of working as a viable business tool. From here, it's easy to move toward the second stage of telecommuting development.

Relatively Elaborate Formal Arrangements For Relatively Few Telecommuters

Once an organization has tasted the fruits of telecommuting—higher productivity, lower costs, more satisfied and loyal employees, greater flexibility and creativity, easier recruiting, lower workforce turnover, and so forth—it's very difficult to renounce any further refreshment.

The natural consequence, in fact, is to expand the number of telecommuters within the organization. In most organizations, however, there remains a core group of managers or supervisors who resist too fast a shift to any new paradigm of employment, and who therefore counsel a "go slow" attitude toward telecommuting as well.

In most cases, the manifestation of these opposite forces is the construction of elaborate safeguards against any imagined abuse of telecommuting privileges, but the willingness to approve more and more telecommuters who

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That's why you'll frequently see ten- to thirty-person pilot programs expand during the following year or two to "roll outs," or expanded pilots involving fifty to two hundred telecommuters. In very large organizations, each division can have one or more telecommuting programs of this size.

This second phase can last a very short time—six months or a year—or a very long time—five to ten years. The time frame depends roughly on several factors, such as:

Profitability. When the organization is making a lot of money, it doesn't feel the urge to break new ground just to cut costs. So it can sustain a workforce that commutes physically (physicommuters) a while longer than a comparable but relatively unprofitable organization.

Flexibility. When top management is willing to entertain new ideas and new work methods, telecommuting gets a fair hearing and a real-life trial far sooner than when top management is resistant to change.

When top management is willing to entertain new ideas and new work methods, telecommuting gets a fair hearing.

Size. Smaller organizations are more likely to listen to the demands of individuals who want to telecommute, but larger organizations are more likely to have a full-time staff of facilities managers, transportation coordinators, or others whose calculations unwaveringly reveal how much the organization can save or profit through large-scale workforce telecommuting. What's more, these multi-million dollar savings or profits have a mind of their own, and tend to persuade management that this crazy, new-fangled approach to employment makes a lot more sense than anyone previously might have guessed.

Industry. Banks, insurance companies, software companies, sales organizations, and other "symbolic analysis" industries are recognizing the advantages of telecommuting and are switching to this new work paradigm far faster than hospitals, schools, publishers, law firms, and other organizations that rely heavily on in-person meetings to build consensus and push work toward completion.

Other Factors. Fads and short-term pressures tend to promote telecommuting for secondary reasons. For example, when clean air legislation was in vogue, telecommuting was one of several dozen methods an organization could use to help it meet the stringent requirements. Now that downsizing is in vogue,

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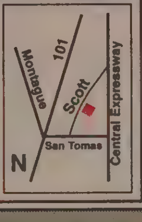

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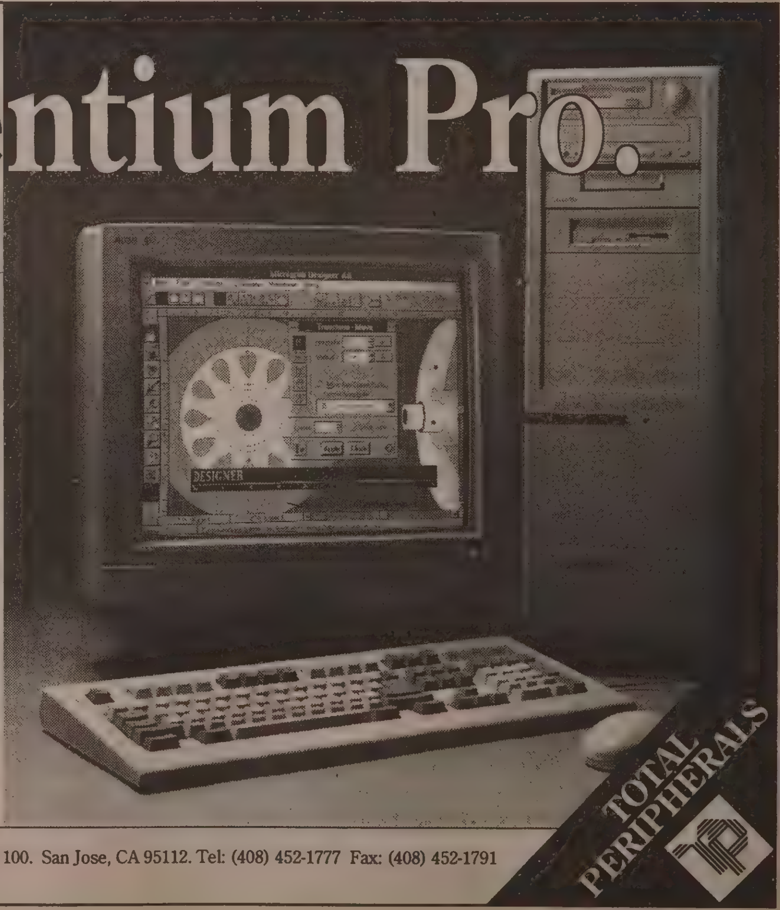
continued on page 165



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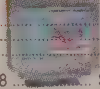

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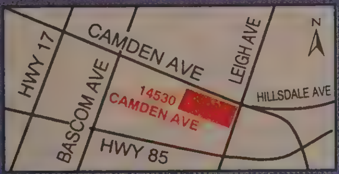

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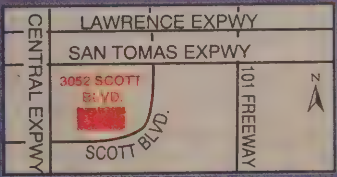

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Less Is Not More, It's Just Billed That Way

Zeno's paradox, one of the great curiosities of classical Western culture, maintains that an arrow shot toward some target will never reach its mark. Before the arrow can reach its destination, it must travel half the distance to the target, and before it can travel half the distance, it must travel a quarter of the distance. Because the distance the arrow must cover can be halved an infinite number of times, the arrow will never reach its target, and motion is an illusion.

Yes, it is a kind of nonsense, but there may be more to this antique curiosity than you might first guess.

Among modern software development projects, for example, one occasionally encounters a syndrome related to Zeno's paradox in which the set of features to be delivered gets smaller as time-to-market gets longer. The development schedule slips, and in an effort to save the schedule features are cut. The schedule slips again and more features are cut. Apply this logic often enough, and eventually it will take forever to deliver nothing.

There is also a corollary to Zeno's paradox that applies to Internet access providers. This version holds that the access provider who delivers the least will charge the most. After all, less service is easier to use than more service, and ease of use is something you can charge for.

As a piece of logic, this is just as suspect as Zeno's paradox. As a description of the Internet access provider business, however, it has the ring of verisimilitude.

The wary, who simply refuse to let paradoxes be paradoxes, will ask: "What do you mean 'less service'? What do you mean 'easy'?" The answers to both these questions are rooted in the changing definition of the phrase "Internet Access Provider."

That Was Then...

Ten years ago, Internet access providers were businesses that dealt primarily with other businesses. Their main service was access to the Internet's physical network. The access provider would, for a fee, allow your business to set up a two-point leased line that would serve as an extension of the physical Internet. Customers for this kind of service were primarily local networks that needed some kind of Internet connection. The upper limit of the access provider's business was set by the address space the access allocated to the provider.

> LESS SERVICE IS EASIER TO USE THAN MORE SERVICE, AND EASE OF USE IS SOMETHING YOU CAN CHARGE FOR.

Five years ago people began to think of Internet access as a service for individual users. The definition of an Internet access provider was widened to include time-sharing services that would, for a fee, provide anyone with a user account on a computer (usually a UNIX computer) attached to the Internet. For the new generation of businesses that provided this sort of access, the limiting factor was simply the number of users that could be supported. Supporting users was largely a matter of having adequate disk space and enough phone lines. Unlike Internet address space, these things were not scarce. The size of an access provider's business was governed simply by how much money the provider could invest in supporting users.

The UNIX user account became a vehicle for Internet access, and the popular notion of the level of service expected from Internet access providers was defined by what a UNIX user could do. The Internet access provider's customers could expect to have email addresses, mailboxes for incoming mail, home directories, and access to any network applications the access provider installed.

Having UNIX user accounts, people with Internet access were also generally "visible" to each other. If you wanted more information about a user, the "finger" command provided a summary of the user's identity.

By virtue of having a home directory, it was possible for an access provider's customers to do all sorts of things. They could, for example, maintain private copies of Internet applications. Above all, they could begin dabbling in publishing information on the Internet.

The simplest way to publish on the Internet is to put your message to the world in a ".plan" file that other users can retrieve with the "finger" command. Publishing via anonymous FTP or via Web pages is a little more complicated, but these are still not difficult things to do if you enjoy the amenities of being a UNIX user: a home directory and the ability to create and edit files.

Patterning Internet access on what was available to UNIX users also set the popular expectation about the Internet's ease of use. While the task of learning UNIX is often wildly exaggerated, it is true that you shouldn't have to learn UNIX to use the Internet. Access providers who gave their subscribers UNIX user accounts were soon faced with the job of answering questions about using UNIX. Regular readers of this column know that these seemingly innocent questions often turn into lessons on one or another

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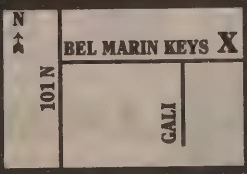

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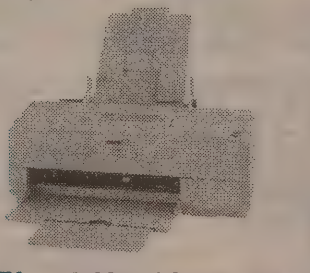

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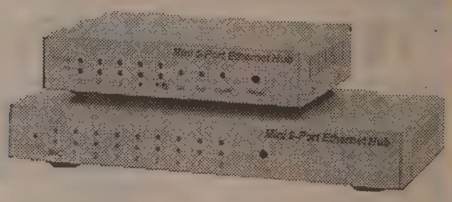

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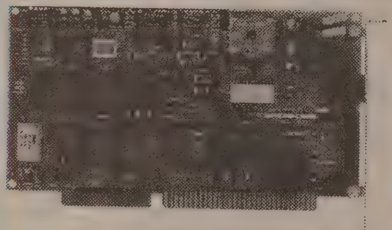

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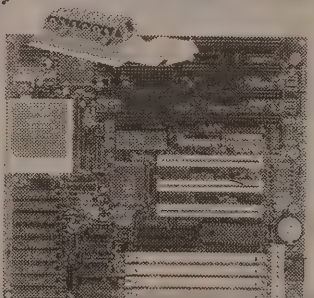

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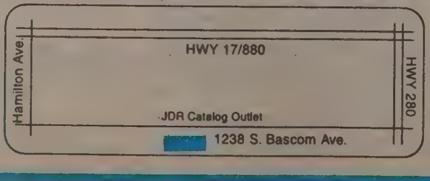

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UNIX *continued...*

fundamental principle of computer science.

...This Is Now

Today the notion of Internet access continues to evolve. For many providers, "Internet access" now means "access to applications that use the Internet." Most often this means that the Internet user gets to run Internet applications on his or her personal computer, and these applications (via SLIP or PPP, for example) use the access provider's system as the first hop in reaching the Internet.

There is, of course, the question of which applications an access provider will make available to its subscribers. Some services preempt this question by simply providing their own proprietary application software. This can significantly ease the business of getting started with the Internet (as well as the access provider's support burden). On the other hand, subscribers may not get the opportunity to choose browsers from other sources or to plug in new applications, and this is one of the attractions of the Internet in the first place.

Apart from the issue of proprietary software, if Internet access is actually access to network applications, ideally an Internet user would like to have access to all of them (there aren't that many), including any new applications that come along. We tend to forget that Internet applications are not eternal: The Web, for example, didn't exist before 1992.

Failing access to all the Internet's applications, however, there are six applications (the Web, Gopher, FTP, Usenet, Telnet, and email) that currently make up the bulk of the traffic on the Internet. It might be reasonable to expect an Internet access service to deliver all six of them.

And failing that, a good Web browser can serve as an interface to most of the features of five of the Internet's six most important applications (Telnet being the exception). Consequently, an online service could claim to be an Internet access provider by virtue of giving its users some way of browsing the Web.

It turns out that access to some of the Internet's applications can be provided without all the trappings of a UNIX user account. Thanks to the Internet's tradition of anonymity, applications like FTP, Gopher, and the Web don't depend on the user's identity (though all of these applications assume that the user has an identity on an Internet host somewhere). If a user has no discernible user ID (or home directory, or mailbox) these applications still work perfectly well.

Consequently, there are now access providers who give their customers just this kind of Internet access: something that works like SLIP or PPP access but without a shell account that would allow subscribers to login to the access provider's system and use it interactively. To the extent that a user has an identity at all on such a system, it is chiefly a thing to measure each subscriber's use of the system and facilitate billing.

These identity-less users are a ghost like presence on the Internet. They can send

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UNIX *continued from page 90*

mail (at least under some circumstances) but have no way to receive responses. They can download files but not upload them. They are impervious to the "finger" command, the closest thing the network has to an untouchable caste.

Charges for this sort of Internet access are high: $3 an hour. Rates for UNIX shell accounts run in the neighborhood of $1 an hour. This higher rate might actually be worthwhile if the access provider has in fact solved the problem of making a UNIX user account easy to use. But it is much more likely that the higher rate will be charged for an account that only allows a user to do easy things.

And that is what it means to pay more for less service.

> IT IS MUCH MORE LIKELY THAT THE HIGHER RATE WILL BE CHARGED FOR AN ACCOUNT THAT ONLY ALLOWS A USER TO DO EASY THINGS.

Shop Wisely Before You Subscribe

The remedy, if you're shopping for Internet access, is to shop carefully. This is mostly a matter of common sense. A lot of online services and access providers encourage users to subscribe electronically. That's fine, but don't subscribe without first finding out what the service provides. If you can't get that information as part of the electronic subscription procedure, take time to get it by phone, fax, or mail. Ask what applications you'll be able to use and whether there are any features of an application that won't be available. Ask if you'll be able to store files on the access provider's computer. If you think you might be interested in having a Web page of your own, ask about that.

Behind all these questions, there's one basic rule: Don't subscribe to an access provider until you're satisfied that you'll get the access you want. If you don't know what access you want, step back, take three deep breaths, and figure that out first.

Maybe, just maybe, before we get the unbearable bill for no service at all, some other law (the same one that, in spite of Zeno, guides arrows to their targets) will kick in. ■

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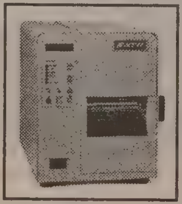

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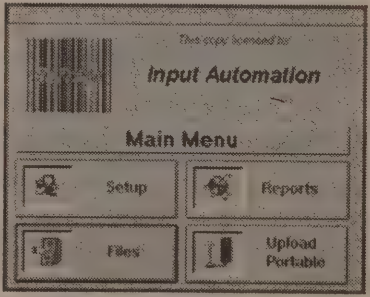

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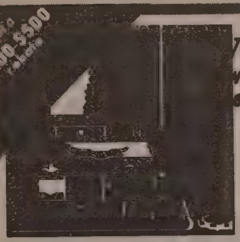

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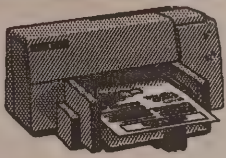

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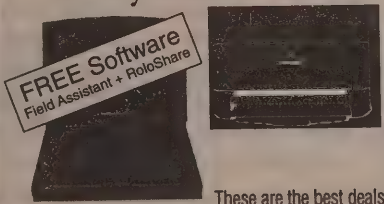

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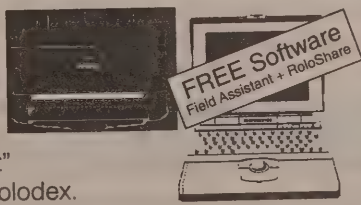

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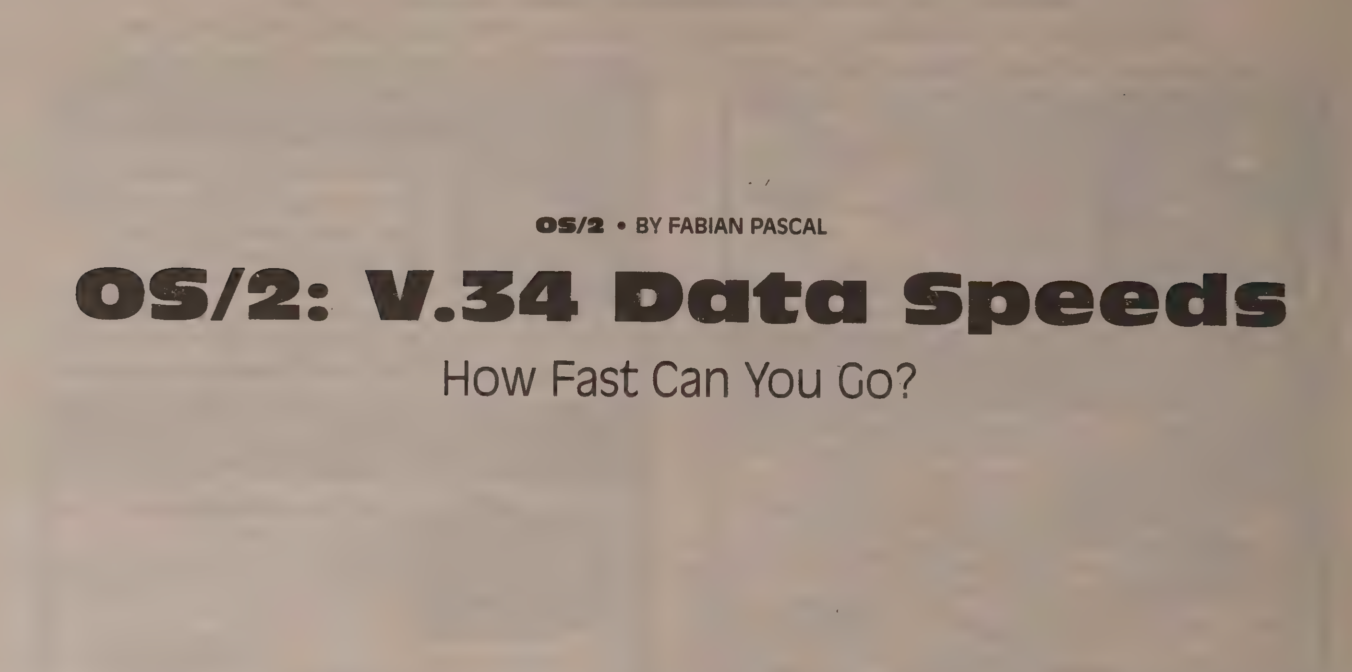

OS/2 • BY FABIAN PASCAL

OS/2: V.34 Data Speeds

How Fast Can You Go?

Communication has been a kind of black box to me: complex, chock-full of acronyms, and not very intuitive. When even experts disagree, you know you oughta stay out.

Thus, even though I wanted to write about fast communication under OS/2, I procrastinated. The more I tried to understand it, the less significant the gain from the effort seemed. Various factors outside the user's control (such as the quality of phone lines, the equipment and configurations at the other end of the line, the data being transmitted and other complications) impose limitations with effects that are difficult even to gauge accurately, let alone overcome.

This two-part article is an effort to provide a notion of what can be expected of common communication tasks at 28,800bps under OS/2. This month I will discuss the basic issues and describe the relevant software and hardware, next month the configuration and results of some simple performance tests.

A Reality Check

The connection between your PC and any other computer with which you communicate consists of three links:

1. the PC-to-serial port link,
2. the modem-to-modem link (over the phone lines), and
3. the serial port-to-computer link at the other end.

The three-link connection behaves like a pipe: the weakest link determines the overall throughput, and you cannot do much about links two and three. So it's a matter of how close to the maximum V.34 performance you can get, rather than striving to reach it.

The V.34 standard sets the maximum modem-to-modem (carrier) rate to 28,800bps (bits/sec)—a throughput, in theory, of 3,600cps (characters/sec, where one character is eight bits)—over link two. If the data is compressible, the serial ports at both ends must operate at higher rates (DTE or baud) over links one and three for the modems to achieve that throughput. For example, with a compressibility ratio of 4:1, the ports will have to pass data four times faster than 28,800bps—at 115,200bps—for the V.34 maximum carrier rate. Your port will pass 4X worth of data to your modem's buffer, your modem will compress it to X and transmit it at the carrier rate to the other modem, which will decompress it to 4X and pass it, via the serial port at its DTE rate, to the other computer.

Graphics or database files may reach or exceed the 4:1 compressibility ratio, and text files hover around 2.5:1. It is common, however, for most large files to be compressed (e.g. ZIPped) prior to transmission, which is better in over 99% of cases than the modem's on-the-fly compression during transmission. Even with noncompressible data, the DTE rate needs to be 25% faster than the carrier rate to take care of the overhead (stop bits) that are also transmitted over links one and three, but not over link two.

For speeds over 14,400bps your serial ports must have 16550 UARTs (rather than the older 8250), whose buffer will prevent data loss, particulary in multitasking environments like OS/2.

Various factors affect performance across link two, among them:

1. the bandwidth and quality of public phone lines,
2. transmission overhead (e.g. error-checking, packetizing),
3. how busy computers at both ends are.

For various reasons beyond the scope of this article, the bandwith and quality of public phone lines rarely support 28,800bps long distance connections between V.34 modems. The likely maximum speed is 26,400bps for BBSs, 24,000 being more common. The throughputs are 3,300cps and 3,000cps respectively. Local 28,800bps connections are possible, but the other factors may prevent the full V.34 throughput (see below).

Serial Ports and OS/2

OS/2's built-in serial port drivers, COM.SYS and and VCOM.SYS, are loaded via CONFIG.SYS and support up to four ports, COM1-COM4. Each COM port uses an address and IRQ.

Current motherboards have two serial ports built in, and they are likely to be set at the standard IRQs and addresses for COM1 and COM2,

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OS/2 *continued ...*

in which case OS/2 will recognize them automatically. The usual addresses for COM3 and COM4 are 3E8 and 2E8, but they have no standard IRQs. If you have additional ports, you must ensure that no two ports/devices use the same address or IRQ. For example, S3 video cards use the address 2E8, so COM4 must be set to use another address. Whether this is possible will depend on your hardware (motherboards usually don't allow it, but some I/O cards do). The documentation should tell you what available addresses and IRQs are supported.

Note: To find out what IRQs are used by what devices, type

```
RMVIEW /IRQ
```

on the OS/2 command line. Identifying and resolving conflicts needs to be done in DOS, for example, with CTS Serial Port Utilities.

Whatever the settings for COM3-4, you need to let OS/2 know what they are. I use two additional ports off a QuickPath I/O card, which allows use of certain IRQs and addresses. Here are the statements in CONFIG.SYS:

```
DEVICE=E:\OS2\BOOT\COM.SYS
(3,03E8,9)(4,0290,12)
DEVICE=E:\OS2\MDOS\VCOM.SYS
```

where (3,03E8,9) means COM3 at address 2E8/IRQ9 and (4,0290,12) means COM4 at address 290/IRQ12.

The serial drivers support a maximum DTE rate of 57,600bps. Because stop bits are also transmitted over links one and three, the DTE rate must be divided by ten (rather than eight) to obtain the throughput—5,760cps. You can increase the port rate to 115,200bps—for example, by using third party serial drivers for OS/2—but you will not improve throughput if (a) the port at the other end is set at a lower rate and (b) the data is not compressible.

BBSs operating V.34 modems usually set their ports to 57,600bps. The throughput of 5,760cps is 60% faster than the maximum V.34 carrier throughput of 3,600cps, which is much higher than the minimum 25% for noncompressible data. And most connections are only 24,000bps (3,000cps) anyway.

CompuServe sets its ports to 38,400bps, lowering the throughput to 3,840cps. This is only about 6.7% faster than the maximum V.34 carrier throughput and, therefore, under the 25% required to sustain the latter. This can, in theory, be a real limitation for 28,800bps local connections, but with CompuServe computers slowed down by heavy access and/or their storage (e.g. disks or tapes), it may not end up being one in practice.

So unless you deal with highly compressible data, know that the target port supports a higher DTE rate, you get 28,800bps connections and use third party OS/2 serial drivers, your best DTE bet is 57,600.

There may be additional advantages to third party serial drivers, particularly if the IBM drivers cause you problems, but this varies from user to user, depending on the circumstances.

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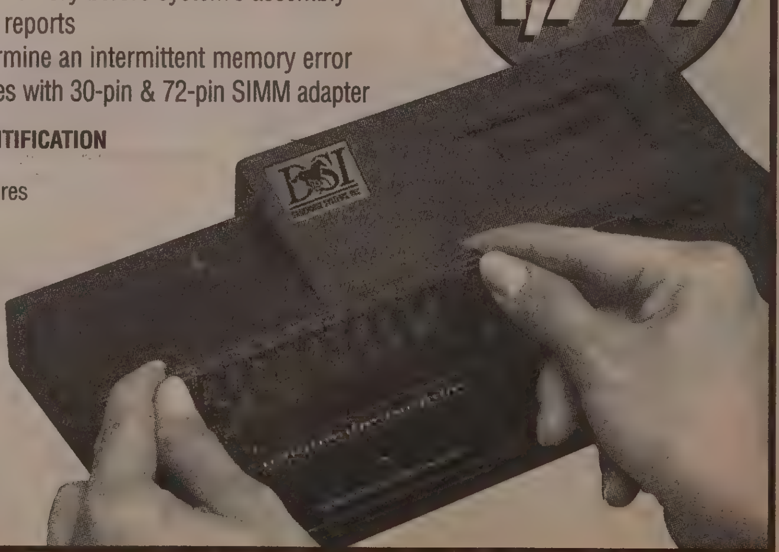

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OS/2 *continued ...*

V.34 external modem attached to COM4. It has a minitower format and a full battery of LEDs. But I can't remember the meaning of LEDs; what I like about the PPI288LCD is that it also has a LCD panel that flashes textual information about the status and performance of the session. During logons it shows the dialing, handshaking and negotiation steps; after connection, it continuously flashes the port rate, the carrier (modem-to-modem) rate, line quality, compression and even throughput in cps. This makes it easier for the average user to monitor the session and to troubleshoot if things go wrong. The modem also has three front buttons for manual setting.

(According to Wayne Fulton, the PC288LCD modem has additional memory for its V.42bis compression dictionary and can compress up to 8:1, thus increasing the DTE rate to 230,400bps. But you must have special port hardware such as a Hayes ESP-2 port, and you must connect to another similar modem/port that supports such rates. The data would have to be unusually compressible. But then, why not compress the data locally and send it over regular ports?)

For backup (and comparative) purposes, I have a Computer Peripherals (CPI) VIVA V.34 external modem attached to COM2. It also has a minitower format, but no LEDs; its front LCD panel uses icons, rather than text, which means one needs to familiarize oneself with the icons to monitor the session.

Software

I routinely log on to CompuServe for email, for forums, and to download files. I also browse BBSs for OS/2 information and software. I've settled on three communication programs (software preferences are rather subjective and you should make your own).

For library browsing and file downloading I use CompuServe's own OS2CIM. While basically a port from WinCIM, which does not take full advantage of OS/2, it's okay for library access. Some inefficiency at 28,800bps and problems with its File Cabinet were recently fixed.

OS2CIM is not a navigator—that is, a program that allows you to perform most tasks like reading messages and replying offline to save you money—but for library browsing and downloading I find it convenient. There is one OS/2 navigator, Golden Commpass, but while some swear by it, it has too many bells and whistles for my taste. I have been using a DOS navigator, Tapcis, in a VDM for years. Because it is character-based and uses the older but faster ASCII interface to CompuServe, it achieves the same objectives in a simpler, more efficient manner. The recently released v6 has an overhauled windowed interface with mouse support and no longer hogs the CPU. It does not multithread, of course, but for email and forums I find it adequate. (CompuServe is eliminating the ASCII interface over the next few months, and Tapcis is changing to deal with it.)

For my BBS needs I looked at various, GUI-based OS/2 communication programs, but I've stuck by a character-based program, TE/2, that is simple by default and fast (yet offers lots of sophistication to those technically inclined). Its only drawback is the lack of mouse support (a Pro version currently in beta is GUI-based).

Next month I will discuss the configuration of parameters and modems and relate results of some simple performance tests.

continued on page 228

SMALL OFFICE/HOME OFFICE • BY BIRRELL WALSH

Tools Of Planning And Consensus

Affordable Aids For Small Businesses

This month

I want to look at some affordable software that small-office operators can use to plan and to think.

One of the tools helps the user create an overview of a project. The second helps a small group (or a single person) examine priorities while weighing a decision.

There are a number of expensive programs for these purposes in the marketplace. While they are excellent for large companies, what small company can afford costly software for an occasional plan or meeting? The products I'm reviewing this month each cost under $100.

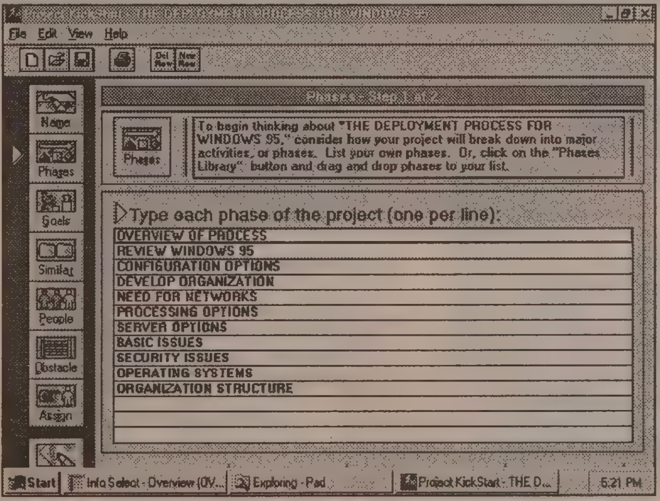
Project KickStart For Windows

The blurb on the cover says that this software will get you started on a project in a half hour. So I lifted one eyebrow and gave it thirty minutes.

When I finished that pleasant half hour, I had in hand a nine-phase plan for an upcoming project. I had fifty-seven steps built in and assigned to various people. And I was impressed. All this in thirty not-very-difficult minutes.

Project KickStart works by asking you questions. The first is "What do you want to call your project?" You tell it. Then it asks you what the phases of your project will be. At each step of the questionnaire, Project KickStart has two resources to help you get past conceptual blocks.

One is a help file called "the Advisor." It makes suggestions based on the experiences of others at the same point in the planning process. Planning chunks that are too big are hard to monitor, it tells you, but so are chunks that are too small. Find a middle level of detail. And so on.



To begin thinking about "THE DEPLOYMENT PROCESS FOR WINDOWS 95," consider how your project will break down into major activities, or phases. List your own phases. Or, click on the "Phases Library" button and drag and drop phases to your list.

Type each phase of the project (one per line):

OVERVIEW OF PROCESS
REVIEW WINDOWS 95
CONFIGURATION OPTIONS
DEVELOP ORGANIZATION
NEED FOR NETWORKS
PROCESSING OPTIONS
SERVER OPTIONS
BASIC ISSUES
SECURITY ISSUES
OPERATING SYSTEMS
ORGANIZATION STRUCTURE

The second resource is a library of other projects that may be similar to your project. The program offers a set of sample files. Many phases and tasks will be similar across different projects. Choose any file, and all its tasks or phases will be listed for your consideration. You can import some or all of them (or of course none of them) into your ongoing work.

Once you've decided on the phases, you are asked to flesh out each phase with tasks. So far Project KickStart is a lot like an outlining program, but it asks three particularly useful questions before it is done with its allotted half hour.

First, it asks you what your goals are. Why are you doing this? For each goal, you are asked if it brings to mind additional tasks.

Then, who else is involved? After you have listed them, it asks what additional tasks each person brings to mind. The person may be an ally, an adversary, or just someone who springs to mind—but Project KickStart is inviting you to provide for them in your planning. This question reminds you to consider the points of view that others bring to your projects. You may not share their opinions or their values but by considering them early, you may avoid problems later. By including their needs and wishes at this stage, you may be able to make adversaries into allies.

The final question is, What are the obstacles? For each obstacle you are invited to say what

continued on page 85

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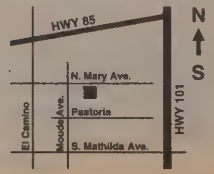

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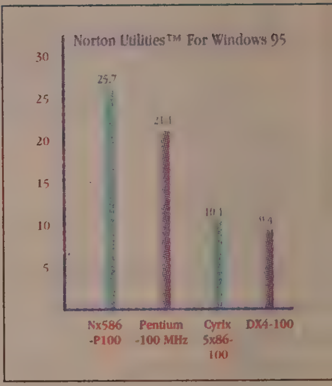

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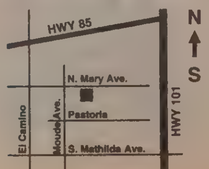

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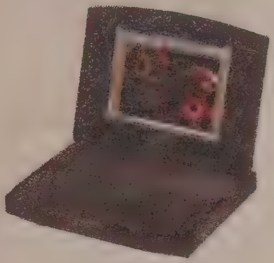

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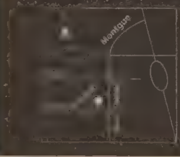

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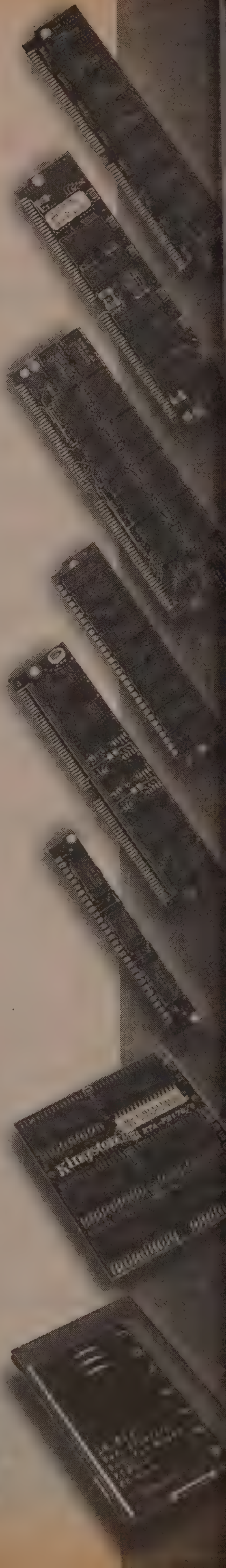


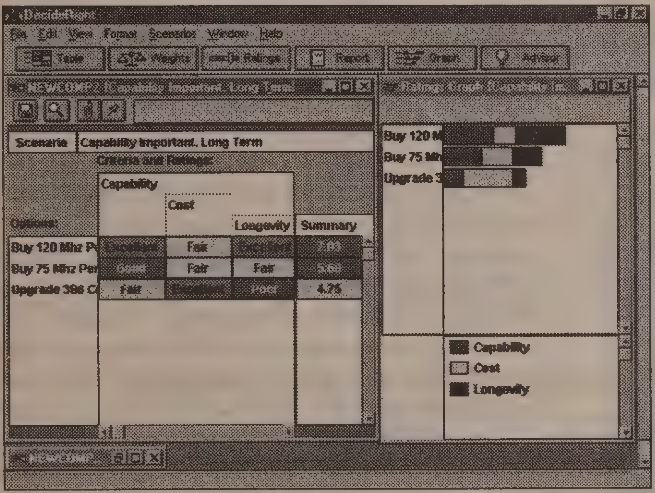
SOHO *continued from page 79*

tasks need to be accomplished to get around them.

With its Goals, People, and Obstacles categories, Project KickStart helps you create a whole set of tasks that do not have a home yet in project phases. About twenty minutes into the project planning, it invites you to assign each of these new tasks to one of the already created phases.

Finally, you can add notes to the outline you have created. In the end you have a not-bad rough outline of all the steps you can foresee in your mission.

The introductory material says to skip the tutorial and the manual and just plunge ahead. Do your own project. Indeed, the onscreen instructions are so simple and obvious that even for a first-time user the program is a pleasure to use.


DecideRight
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NEWCOMP2: Capability Important, Long Term
Ratings Graph: Capability Im
Buy 120 M
Buy 75 Mh
Upgrade 3
Capability
Cost
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NEWCOMP

Scenario: Capability Important, Long Term

Criteria and Ratings:

Options:	Capability	Cost	Longevity	Summary
Buy 120 Mhz P	Excellent	Fair	Excellent	[illegible]
Buy 75 Mhz Pen	Good	Fair	Fair	[illegible]
Upgrade 386 C	Fair	Excellent	Poor	4.75

Project KickStart exports to Microsoft Project for further polishing and display. I found its built-in printing perfectly adequate for my simple job.

If you are a habitual planner, this program will be fun. If you are a person who does not plan easily, this program could be a life-saver. Recommended!

Avantos DecideRight

The moment of decision: You must determine whether to merge your worldwide commercial empire with Microsoft. You must choose whether to crash the *Enterprise* on a strange planet.

Or you must decide whether to upgrade your computer system, and if so to what kind. You have a coal-powered 386-33MHz. Just a couple of years ago it seemed to be the most wonderful machine in town, and now support people sneer at you on the phone. You need to upgrade your system. But how?

At this point most of us just do a little research and go on instinct. This is not a bad strategy. It can be a problem, though, if you have two partners with different instincts. It can be a problem if you think your information is soft. And it can be a problem if you end up with too many factors to juggle in your mind.

What to do?

One solution is to invest in Avantos DecideRight, a Windows software tool that helps with all your decision elements. There is no guarantee that it will make the deciding easy, but it will illuminate your presuppositions.

When you begin a DecideRight session, the program invites you to use a QuickBuild engine (which is included) to automate the already simple process. It is useful to do so the first few times. You are invited to give a name to the decision, and to add a paragraph or two of explanation to the name.

After I had written "How to Upgrade my PC?" DecideRight asked me to list my options, one on a line. Short names with the important information near the front are better, as it shows only the first one or two dozen characters of each name on most of the tables you make. I chose three options: "Upgrade 386 components," "Buy 75MHz Pentium," and "Buy 120MHz Pentium." It is worthwhile choosing these names with care: although the manual assured me I could edit their names "at any time," I was not able to do so after creating several scenarios.

The next step is to choose criteria. Again the QuickBuild engine provides a blank listbox for you to work in. I knew that I did not want to spend a whole lot of money. I knew that I wanted to have a machine that would have the room and speed I need to review

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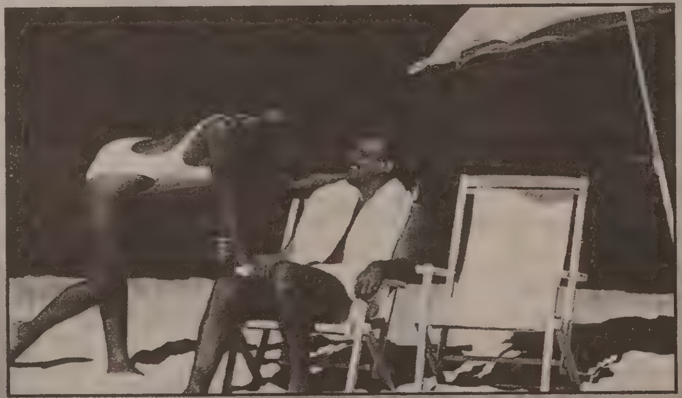

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Where do you want to go?

SOHO *continued...*

products. And I knew that I wanted it to last a couple of years. The criteria that I chose were Cost, Capability, and Longevity.

Then DecideRight asks you how important each of your criteria is. Is the importance of cost high, medium, or low in your evaluation? You can choose the importance (DecideRight calls it "weight") of each criterion by clicking on "High," "Medium," or "Low;" or you can do it more precisely by moving a slider. The program will show you the choices you have made. You can change them at any time, and this element I did find easy to alter.

Once you have chosen the importance of the criteria, you are asked how well each option meets each criterion. One of my options was "Upgrading 386 components." In my estimation, this solution would not last, but it would give me a bit of added capability and would give the best cost results. So I rated "Upgrading 386 components" as "Poor" on Longevity, "Fair" on Capability, and "Excellent" on Cost. I made similar rating decisions on each of the other options, and clicked on the "Next" button. Voila, a table appeared evaluating each option.

You can get the evaluation in verbal terms as "Excellent," "Good," "Fair," or "Poor." You can also choose to see your results as a graph that shows the contribution of each criterion to the final result.

If you are of a contrary turn of mind, you are now saying, "Yes, but all these ratings and weightings are totally subjective. Different people would give them different values and therefore get different results." Yes, indeed. DecideRight has provided for different viewpoints by giving you the ability to create different "scenarios." In each one you can change the weighting of criteria, the ratings each option gets against those criteria, and the explanatory text.

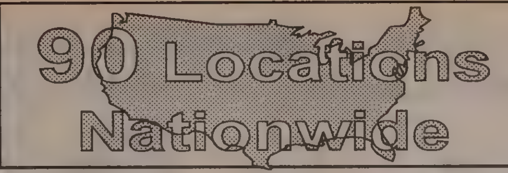
I found that I could get quite different results if I made "Cost" very important or relatively unimportant. "Longevity" never became the most important variable, but I tried scenarios in which "Capability" was all-important and only moderately important. Working with DecideRight became an exercise in making values explicit.

Each scenario may also represent an evaluation by a different individual or working group. By committing to clear and visible opinions, different factions can begin the horse trading necessary to reach consensus. I found I had two real options: a temporary fix (after which I would face the same problems again) or an investment.

By making such facts clear, DecideRight can help a group come to focus. It is ideal for the small office that needs to gather around a single computer screen to find a consensus. It helps to make thoughts and feelings explicit. And, to abbreviate endless discussions of "My scenario is better than your scenario," DecideRight provides a "Does it matter?" tool. Called the "Sensitivity Indicator," it is a pair of marks on any scale that shows how much it would have to change in order for the evaluation to go up one category or down one category. If your argument is about something that doesn't change the result, you can that immediately.

I can imagine that a work group might find DecideRight tremendously helpful or tremendously annoying. It does make the decision process rather explicit, and some people don't like anything that is not intuitive. They feel mechanized and dehumanized. Others may

PC WAREHOUSE



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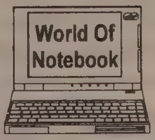

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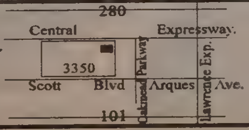

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SOHO *continued ...*

come to rely on it as a sort of oracle of objectivity. One customer quoted on the box said "DecideRight removes the subjectivity in the decision-making process." Ridiculous, say I. A decision has subjective inputs, and therefore has subjective components to its output. DecideRight does make the subjectivity explicit, a different and valuable contribution.

A wide variety of options in DecideRight allow it to be tailored to different working styles. Those who prefer verbal evaluations can see the ratings, weightings, and results as "Excellent," "Good," "Fair," or "Poor." Those who think quantitatively can see the ratings as numbers on a one-to-ten scale. Those who are visual may prefer the comparative bar-graph.

Reports are a critical part of any decision assistance tool. If you are in a large organization, those above you in the hierarchy want to know how you have arrived at a decision. If you are working alone, you may need to explain a choice to a client—or to prove that it is a reasonable decision.

DecideRight provides a family of reports that can be used to explain (or justify) a decision arrived at with the program: an Executive Summary, an Alternative Scenarios Report, a Top Choices Report, and a Full Report that includes all of these. There are exports to PowerPoint and to Freelance. If you plan to become a heavy user of DecideRight, you will be pleased to know that it includes a report language in which you can design reports of your own. ■

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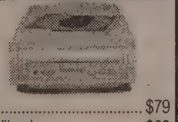

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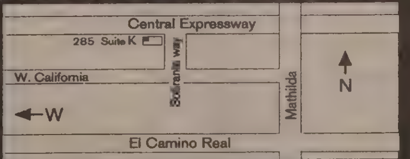

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BY LAURA BELL

Creative Business Use Of Email

Guerrilla Tactics And Cautionary Tales

I first heard about mailing lists from a networking friend I met in the Microsoft Small Business area of America Online. At the time, we were both using the online world to network different entrepreneurial ventures. His email regarding mailing lists was the best marketing and business tip anybody has given me during my fifteen years of free-lance writing.

Since joining the market-l mailing list (to join, send mail to: *listproc@mailer.fsu.edu* . In the message area, type "Subscribe market-l" followed by your email address), I have received help from the participants in researching articles, gained friends around the world, and sold my marketing services and many subscriptions to my newsletter.

Creative Use Of Mail

I have put my mailing list subscriptions to uses that aren't discussed in usual net coverage.

One example: For a couple of years I've been researching material for a novel concerning a religious group. I went over the first newsgroup I found that listed a discussion of Christianity and posted. Soon I received a private email message with instructions on how to subscribe to the mailing list that hosted an ongoing forum regarding this religious group.

Anyone interested in any special interest group can follow similar procedures. Any current controversy will be found on the net.

You Never Know Who You Might Be Talking To

About a year ago on the market-l list, there was an ongoing thread about the telephone long distance wars, then being waged during prime time on the major networks. The discussion considered both the merits of the commercials and the merits of the sponsors. Comments came from all elements of the audience: marketing students in Mexico, marketing professors at prestigious universities, and top management of the Big-Eight advertising companies.

After the ad exec who had written the copy for the latest entrant by AT&T put in his two cents, there was never a word uttered on the subject that I recall.

Many of the list users, who have ongoing marketing clients and want demographics to back up a business proposal, use the list to elicit research they would otherwise have to go out and do themselves. If they don't get the kind of response they want initially, they probe one of their buddies in private email and get him to chime in about the validity of the post, thus almost guaranteeing the additional needed information.

Take this one step further. Join a list which is product oriented—software, hardware, you pick. Someone throws out a comment regarding the changes in the market to stir up a conversation. Quite possibly somebody who is working on a product in development stage might disclose something interesting. Know the ins and outs of mailing lists and filter accordingly.

Virtual Corporations And Private Discussion Groups

The most effective way to get action started and information exchanged is to write an intelligent post and sign your name. On the free-lance writing list (*owner-freelance@newshare.com*—subscribe freelance [your name]), I made a comment recently regarding the need to have an online version of the *Writer's Market*. Within 48 hours, two different individuals had designed Web pages and had them up and going for list members to post their bios and credentials.

During the time I virtually lived on the net while marketing my newsletter, I composed posts regarding marketing, or a closely related subject, and sent them to the whole list. I signed the post with my email addresses. There was a signatory line indicating my name, title, and the name of my newsletter. Very quickly, people from many spots on the globe started sending me private email; before I knew it, I was hosting a private mailing list.

At the time, they were all interested in starting a virtual marketing corporation, but I didn't want anything without some corporate backing. I had been previously chatting with an account executive with Leo Burnett in Chicago; he didn't think it was a saleable idea, so it got dropped.

Just recently a limited partnership calling itself the Marketing Mavens has started as an offshoot of the market-l list. It is not, currently, revealing to us outsiders just what its business plans are.

Virtual corporations are a reality; money is being made, clients are sought, captured, and contracted—in some cases without any personal face-to-face meetings ever taking place. One marketing business owner in Singapore, Steven Howard, recently told me about a potential client of his in Silicon Valley; they connected through exchanges on the net.

Use It Wisely

Mailing lists and their potential enhancement to the corporate bottom line growth are among the best-kept secrets on the Internet. Files of mailing lists are available for downloading in most servers' accompanying libraries. They are mentioned frequently in computer and net columns. Partial indices are available through the information services.

Some of the lists actually do allow direct advertising—be sure to read the accompanying FAQ (frequently asked questions) sheet issued at the time you subscribe before jumping in with unwanted ads. ■

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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Cyberspace Theatre

Human Interaction In The Newsgroup

It's often been said that cyberspace is only virtual reality, that the Internet and the Matrix contain no community, no culture, no tradition.

Well, there's some truth to that, in much the same way that you won't find much American culture if you look for culinary traditions like the French or blossom-viewing traditions like the Japanese. If, however, you accept culture as something that grows from the local people and their reaction to their history, then there's popular music, Elvis, and even Elvis sightings. This may seem like crude culture compared to ancient Greek songs of Orpheus and Eurydice, but hey, give it a few hundred or thousand years!

The Internet and the Matrix (much culture has to do with interhuman communication, and thus extends beyond the interactive Internet into the store-and-forward mail and news parts of the Matrix) are probably at about the 500 BC stage of cultural evolution. That's when the Greeks really took to writing down oral history, and what else are FAQ files, after all? FAQs are probably the most widespread artifacts of cyberspace culture; sort of the cuneiform tablets of the early online age.

Digital Drama

But let's look at an even bigger and ever-popular piece of cyberspace culture. This one has developed to about the level of early medieval morality plays. A bunch of players pull into the next village with their cart and props, and proceed to overact a melodrama with stock characters and moralistic overtones. The audience may join in by cheering, throwing vegetables, or even chasing the players out of town—very participatory. In cyberspace the cart is a mailing list or newsgroup, the village is global, the players are the list members, and the audience is cyberspace itself, but the idea is similar. Cyberspace Theatre!

And what's one of the most popular plays on the playlist? One that plays pretty much the same in English or French (or probably Aztec), on multiple continents at the same time, and never fails to contain most of the same characters and motifs, even down to a characteristic speech in each of three acts? Why, it's: The Unruly List Member and the Dictatorial List Owner.

Act I: Fogging Up The Window

During a slack time on the list, a member starts posting daily stream-of-consciousness notes, or incredibly technical detailed notes, or weekly newsletters, or frequent updates on that member's favorite organization. For a while, nobody minds, and a big advantage of cyberspace is that unwanted messages can be deleted.

But after a while the verbosity becomes irritating, and somebody complains to the list owner (or moderator, if there is one). After a little discussion, the unwanted posts cease for the moment, but the verbose person has gotten attention; this is otherwise known as positive feedback, and it encourages more verbosity.

Or somebody starts posting responses to almost every message sent to the list. Perhaps brief at first, these responses gradually become more verbose and more contentious. This isn't a problem in itself—discussion is what lists and newsgroups are for, and lots of people feed on contention; this may just be a lively period for the list.

The plot may thicken. Maybe so much off-topic material gets posted to the list that it's really become a problem, but the poster won't stop.

Or the verbose poster doesn't like the style of something someone else posted, and starts insisting that nobody should post such a thing, or even that nobody should act like that at all. Sometimes this happens about substantive matters or concrete actions, but to be most effective the insistence should be about subjective matters of style, which are hard to prove wrong, but can waste a lot of effort in the attempt.

To get things really stirred up, throw in a little misinterpretation. You'll often hear later, "I could only go by the words in the message!" Not. Consider something as simple as, "It was annoying that that person wanted me to call on the telephone." Does this mean the telephone

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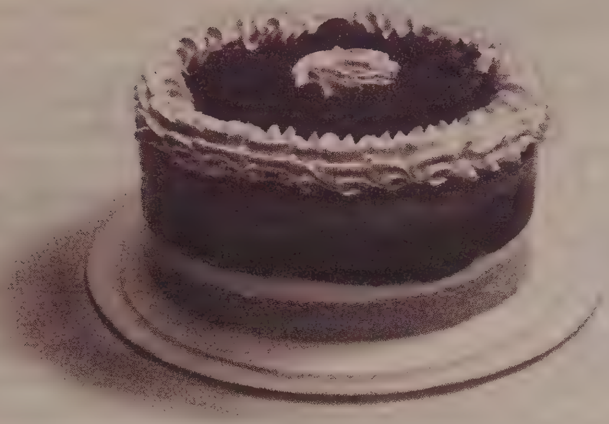

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is the problem, and anybody who expects it to be used is annoying? Or is the annoying part that the person didn't call instead? Which is more important, the noun or the verb? Context may indicate which. If not, electronic mail works both ways, and anybody who can't tell could ask. But for most dramatic effect, be sure to assume either one or the other and post a long diatribe.

There may even be specific taboo subjects for the given list, but those vary widely and we can't discuss them here. The most common type of clearly inappropriate message is the direct personal attack.

Sooner or later, the name calling starts. "Ass!" "Rude!" "Jerk!" Whatever. Sometimes it's more virulent, and sometimes it's in an apparently milder form, such as, "Your tone just really isn't up to your former standards." The common motif is that it's personally directed at a specific list member, it's clearly pejorative, it's basically subjective, and the namecaller is quite insistent. This is the characteristic soliloquy of Act I. It may be repeated as needed for dramatic effect.

Sometimes even at this stage the situation can be defused. Humor would be good, but cyberspace hasn't evolved that far. Humor is likely to get digital stones heaved at you; accusations of heavy-handedness, irony, or, *gasp!* sarcasm!

Other threads of conversation might get people off the contentious subject. Unfortunately, many people won't post at all when anything contentious is going on, even if explicitly asked to do so. There's also the danger that new subjects can quickly be made contentious by the same kinds of postings that were already a problem. It's worth a try, though.

List members often recommend just ignoring the personal attacks. This may produce a breathing space, but it also gives the impression that personal attacks are OK. Thus they will reoccur later, and louder. Repeat Act I from the beginning, until the person attacked or the list owner (who is also the easiest target) decides enough is enough.

For dramatic effect, pepper the thickening stew with haste. All players can assist with this seasoning.

Harried Director's Dilemma

Eventually we end up with the list owner or moderator having to assert authority (oh, what an ugly word to networked ears!) one way or another. The best way is to simply appeal to all to calm down and get back to more productive discussions. This seldom works, but if it does, it's the least contentious solution. Unfortunately, its eventual result may be the same as ignoring the problem, which is to say the problem may just reoccur later and louder, but this tactic is still worth a try.

Another way, though more risky, is to assert that diversity is the essence of online discussions and that nobody has to agree with anyone else—an appeal to reason, or higher principles, or collegiality. Sometimes this works, if the participants aren't too angry already, and if they aren't of too dissimilar personality types.

Still more risky is to assert that the rules of the forum preclude personal attacks. The poster(s) performing such attacks are very likely to deny any such intent, no matter how inflammatory, personal, subjective, or derogatory their language. And in their minds, they may even not have had such intent (see below on personality types). There are also, of course, people who see nothing wrong with personal attacks and will insist on continuing them, knowing full well what they're doing.

So, eventually the situation reaches a point where more drastic mea-

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sures seem called for. A list moderator can try rejecting objectionable messages, and that may work. However, the person receiving the rejection notices is likely to get even hotter under the collar, and eventually the same point may be reached as if there were no moderator. The moderator or list owner may be faced with having to remove someone from the list.

If various mild warnings don't work ("you have the option of unsubscribing if you don't like what others on the list are posting," "the list is not for personal attacks," etc.), it's worth getting someone else to ask the problem member to desist. Here's where having two list owners or moderators can be useful: One can be the publicly visible lightning rod while the other speaks softly behind the scenes. By now the problem person is probably only listening to those who send messages of agreement, but it's worth a try. Starting a new thread of conversation may still be an option, even at this late date. If these things don't work, the problem remains, and Act I has a cliffhanger ending.

Act II: The Defenestration

The play is in full thrash when the list owner has to directly warn the problem member that further offenses will result in removal from the list. It helps if the guidelines for the list explicitly say this is a possibility, but you can be sure that the problem person won't like it one bit anyway. Just because someone saw such a clause when they signed up doesn't mean they ever thought it might apply to them!

A common reaction is hints of how some other forum would be a good idea; after all, how dare anyone be so dictatorial as to threaten (threaten! why, the very idea!) to remove such a harmless member of list society! Such a productive member! One who never posted anything offensive to anyone! Clearly the list owner is the real problem! A long soliloquy often ensues on this subject, and this is the characteristic speech of this act.

The play becomes most dramatic if the two people involved in this central duet are of different personality types. For example, consider two oversimplified types: social (or people-oriented) and logical (or task-oriented).

Now if a social type sends a message, it's likely to be long enough to encode the subtext that contains the real meaning, which is that the sender is a fine sort of person who appreciates the addressee and wants to be recognized in kind, so both will feel warm and fuzzy. A logical type is likely to respond only to the literal points of the message and in a matter-of-fact manner, since the words in the text are the text and getting the job done is the only real source of satisfaction, not irrelevant pleasantries.

The social type will then become offended at finding no subtext of respect and high valuation, not even any small talk, just a short, brusque—no, rude!, even angry!—message. The social type will likely then respond by sending an even longer, emotion-laden mes-

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sage in an attempt to smooth things over, without necessarily addressing any specific previous points, which were of course irrelevant to the essential meaning. The logical person will then see the social person as unresponsive, slippery, pompous, manipulative, and time-wasting. These twain are unlikely to meet. Each may be sending messages in what they think is good faith, but neither is going to see it that way. If one starts trying to insist the other should switch personalities, nothing but trouble will result.

A popular proposal is that lists should only be run by social people, since after all communication is a social act, isn't it? This actually doesn't work any better in practice unless all the list *members* are of the same personality type as the list owner; otherwise you get just as many problems, no matter which personality type it is.

Often the problem person will find the possibility of actually being removed so distasteful that they will unsubscribe first. A good twist on this development is to post private correspondence with the list owner as a parting shot. Misposting the actual unsubscribe message to the list instead of to the -request list is another good touch. Doubtless no one would ever do that just to stir up controversy, without any real intention to unsubscribe. Whatever the intention, a prudent list owner will take such a request at face value and unsubscribe the person.

Or the former behavior will continue, and the list owner will have to remove the member. It doesn't really matter whether the person jumped out the window, muttering words of wounded denial, or was thrown out; the ensuing reaction will be the same. Act II thus comes to its conclusion with the defenestration.

Act III: Closing The Window

Now come the defenses of the defenestree. Usually the first ones are of the nature of, "Let's be reasonable." These may even come from people who were asked to help before, for example by starting new threads of conversation, but who declined to do so at the time. After all, surely no one meant any personal offense, and now such people feel compelled to post and say so (no matter how specific and personal the messages may have been). "This list has seen racism, sexism, anti-Semitism, etc., and somebody gets kicked off for an insult?" Never mind that those things were discussed, not aimed at specific list members.

The main thing that won't get posted is support of the list owner. After all, what is this list *owner* term?! Isn't cyberspace common property? Aren't we all equal? Shouldn't all decisions be democratic? Or by consensus?

Actually, the political system of cyberspace is anarchy, but most people only know that term as a curse word, since in the unnetworked world more organized political systems have usually won out and produced the histories. The Matrix is the biggest anarchic system ever, and in an anarchy things happen because somebody takes the initiative to make them happen. This

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involves committing time and other resources, such as disk space, CPU cycles, and messages to interested people. Such commitment comes with responsibility to keep the initiative working, and that is the basic role of the list owner. The list members also have responsibility to help keep the list going, for example by staying within the charter of the list. But the roles and responsibilities of the list members and the list owner are not the same.

Pretty soon someone will work up to a fine pitch of rhetoric, and post the "Dictator!" speech. The exact key term varies with the mundane world culture of the poster. Africans are likely to say dictator or even colonialist. Latin Americans might refer to Pinochet. Nazis and Hitler are popular worldwide for use as insulting epithets. I've seen even nastier comparisons for the list owner, even (oh, the shame of it!) *publisher!*

A good dictator speech should also include many uses of the word "power" as a synonym for "evil." One such speech is good enough, but more can only be better, since more egalitarian, and thus excellent for setting up the basic conflict between the poor, aggrieved defenestree and the nasty, inegalitarian list owner.

This speech lends itself to adornment, much like a Christmas tree. Ancient imagined slights can be hung all over it. Opinion presented as universally known fact makes sparkling baubles. Malice on the part of the list owner may be invented and hung in ropes around the tree. Hearsay should be set on top. But too much decoration can hide the tree, or sometimes make it look more like a troll, and thus less likely to be taken seriously by anybody. Sticking to the basic subject is actually better for setting up the dramatic conflict.

People posting both kinds of messages in favor of the defenestree usually copy the defenestree (never mind that said person is already off the list, either voluntarily or not). Usually around this time either the defenestree or supporters thereof start making more explicit demands for a different forum.

The Matrix is large, and can easily contain more pieces of cyberspace. Anybody who wants another forum can certainly start one. Somebody will probably contest even this relatively obvious fact, however, arguing that there's only one true list; it's just been perverted by the list owner and must now be rehabilitated by changing the rules or wrenching it away from the list owner.

In such internecine struggles are movements and revolutions (or conversation, for that matter) drowned. It sure would be a lot easier for those who want a different list to just start one, announce it on the original list or elsewhere, and see who joins. Let a thousand fractals bloom. Natural selection will decide which ones work.

The play from here may have different endings. Those supporting the defenestree may pick up their marbles and go elsewhere, which may or may not split the original group or eventually do away with the original list. Or they may stick around and wrangle about how things should be run, which is very likely to drive the list into the ground. Or they may accept the decision of the list owner and get on with the discussions the list was started for.

There's also the possibility that the defenestree may decide to abide by the ground rules of the list after all, and may then be welcomed back in. This is unlikely to be a lasting solution since the original problem probably arose from conflicts of personality, which means the same person is unlikely to recognize similar future occurrences as a problem.

Part of the problem is that people use inappropriate analogies. A voluntary mailing list isn't a government project and membership is not an entitlement program. It isn't really a play, either, it's more like a meeting in the list owner's living room. A guest who starts calling others names will likely be talked to relatively quietly at first, but will eventually be asked to leave, and not invited back. This isn't a matter of freedom of speech or of the press; it's a matter of hospitality and common courtesy.

But, of course, not everyone will agree on that analogy, either. Life's like that, especially in cyberspace: Often there are no neat endings.

The Moral

What is the moral of this modern morality play? Well, that's hard to say; the culture of cyberspace is only beginning to be invented, and it's not clear what the seven deadly sins or virtues might be.

Possibilities for at least venial sins, however, might be verbosity, literalmindedness, and haste. Possibilities for virtues might be initiative, responsibility, and tolerance, or merely civil conversation. ■

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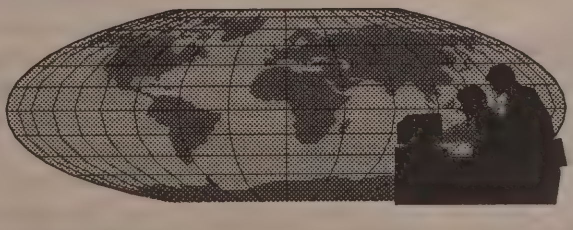

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Talkin' Baseball

Build, And Play, Your Own Dream Team

My favorite online service is STATS Online. Much to my wife's chagrin, I'll be using it a lot between mid-December thru March '96 as I manage my virtual baseball team, the Concord Crown, one of twelve teams competing in the Gentleman's League of Bill James Fantasy Baseball Winter Game.

Unlike fantasy baseball or rotisserie leagues that are based on current-season players, statistics, and injuries, the Winter Game is based on building teams from a catalog of more than twenty-five hundred players from the past. Then, the most sophisticated computer simulation model ever developed for baseball is employed to track player and team performance over a 154-game season spanning fourteen weeks.

This will be my third whack at the "big show" after an inaugural year where the Concord Classic (I change the nickname of the team each year) wallowed in fourth place, sixteen games off the pace of the Western Division-winning Rochester Hopbitters, and last year's late-season collapse by the injury-plagued Cadence, which lost the division title in the last week to the Atlanta Actioneers by a measly two games after leading the division for most of the campaign. This year will be different though, I promise, as I plan to relocate the Crown from the cavernous confines of Forbes Field to an even roomier Exposition Park (circa 1890–1908).

In the Winter Game you get an imaginary $1,000,000 to pick players from all eras of baseball's past, including Negro and Japanese leagues, from which to build your team. Player values are based roughly on career performance, longevity and durability, and demand. So Babe Ruth this year will cost an owner $285,000, while you can pick up Jose Pagan for $25,000.

Picking Players

In the Winter Game, you quickly learn it's too expensive to field a team with all superstars, and stacking up on lesser players will drive you nuts with poor performance and costly injuries. So you need to hit the agate type found in the standard resources like Thorn and Palmer's *Total Baseball* (ISBN # 0-06-273189-0, 2362 pages, Harper Perennial, $35) to help you field a talented but balanced team.

> In the Winter Game you get an imaginary $1,000,000 to pick players from all eras of baseball's past.

The theme for all of my teams so far has been the Pittsburgh Pirates. Over three seasons, with one exception, every player on my roster has worn a Pirate uniform for at least one game of his career. The lone exception was Oscar Charleston, the legendary center fielder for the Pittsburgh, PA-based (close enough) Homestead Grays and other great Negro League teams.

Theming teams like this does limit your choices from the available talent pool, but how else can you keep track of it all?

In the Winter Game you get to set lineups, pitching rotation, platoon, and pinch-hitting strategies, as well as set defensive and offensive guidelines for guarding the lines, intentional walks, pitching around hitters, bullpen usage, bunting, base stealing, and base running. Crank all of that, along with the two hundred or so player and ballpark factors, into the code and sit back as the computer model simulates eleven games a week, producing full box scores, and, unfortunately, as in real-time baseball, injury reports.

Injuries are the bane of any baseball team. So you gotta' love Bill James for being brutally honest about it when coding two .310 lifetime hitters (Harvey Kuenn, 15 years and 6913

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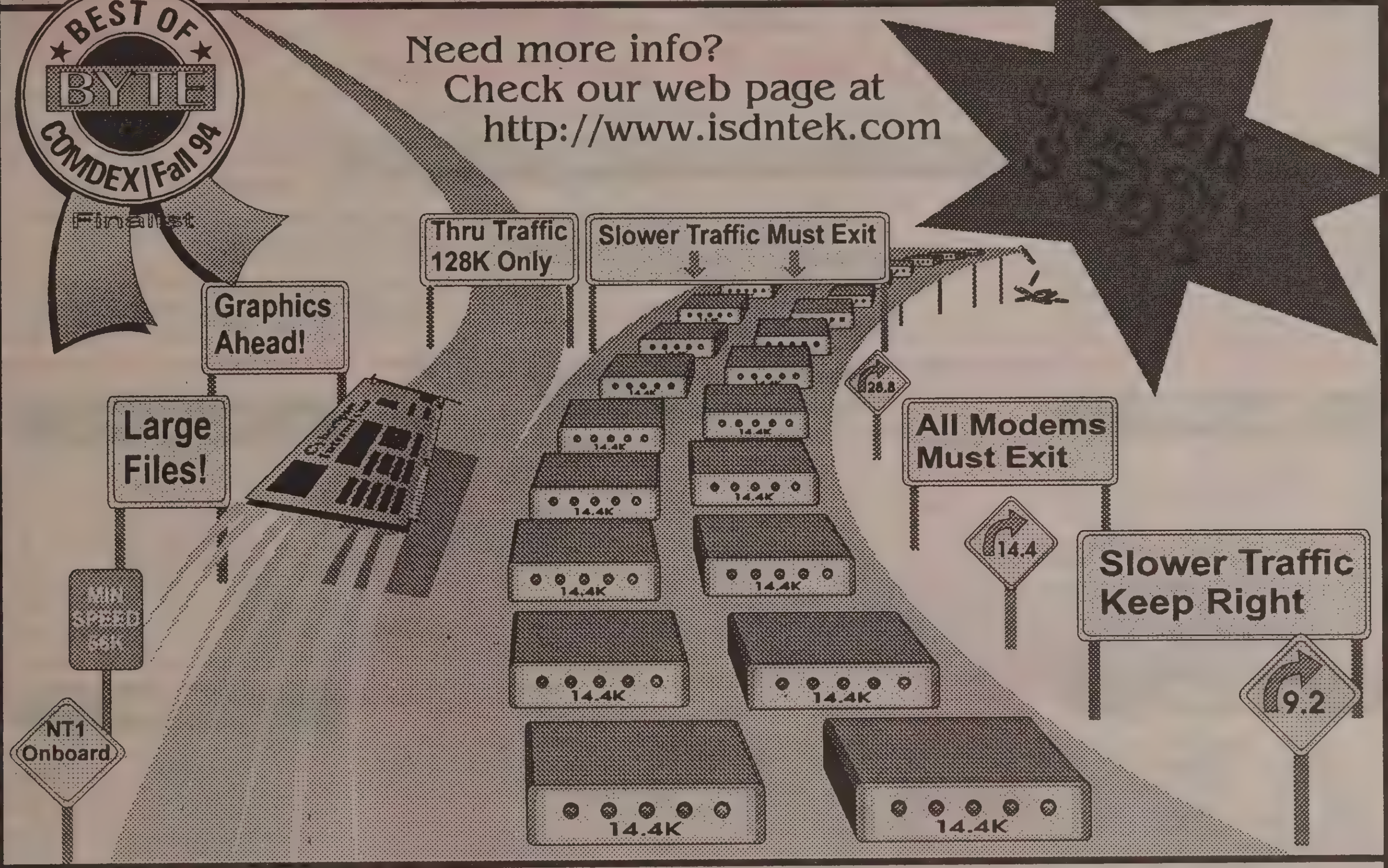
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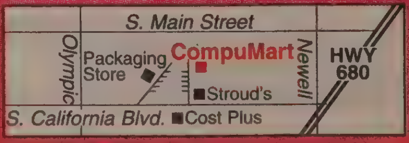

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ABs vs. Pete Rose, 24 years and 14,053 ABs): "...We all want a .310 hitter to hit about .310, even if his career was short. So what we do is, we control his playing time. We do other things, too, but the number one difference between Riggs Stephenson (14/4508) and Paul Waner (20/9459) is that we limit Riggs' playing time. We hurt him." (Ouch!)

During the season, you get to change your lineups and strategies, buy and cash in players from the catalog, and make trades with other owners. For instance, last season I sold Mace Brown to the Des Moines Demons at list instead of getting only 70% for him if I had just cashed him in. You also get $25,000 each week of the season through the eleventh week to help you continue to build your team and offset long visits to the DL.

To begin the season, the Crown will start: Tommie Leach (CF), Carson Bigbee (LF), Honus Wagner (SS), Paul Waner (RF), Stuffy McInnis (1B), Lou Bierbauer (2B), Al Lopez (C), and Wid Conroy (3B). On the bench are: Jerry May (C), Paul Popovich and Danny Murtaugh (IFs), with Gene Hermanski (OF) and John Russell (OF). I could be very wrong, but this combination of speed, defense, and durable timely hitting and expansive home field (400' 450' 400') should keep a relatively weak pitching staff in the ball park and in the hunt until resources are available to upgrade the likes of starters Cy Falkenberg (R), George McQuillan (R), Cy Blanton (R), Tom Sturdivant (R), Joe Gibbon (L), Earl Hamilton (L), with Jack Lamabe (R), Bruce Dal Canton (R), Luke Walker (L), and the rubber-armed Bob Miller (R) in the bullpen.

Player values are based roughly on career performance, longevity and durability, and demand.

Looking at this pitching staff, at first glance I almost named the team the Concord Cheese. None of them had very long careers so they'll get dinged with injuries more than I like. Yet they are a good, low-cost collection of high strikeout-to-walk ratio pitchers that will benefit from a six-man rotation, strong defense with range up the middle, and a barely reachable outfield fence. Having a capable and durable battery-mate like Lopez (.264 BA), who handled pitchers well, played good D, and called a good game will have a positive impact as well; far more than some good-hitting catchers like Smokey Burgess (.295 BA) or an Earl Smith (.303 BA), two lefties who thought their middle name was "Passed Ball."

I spent less than $400,000 for the pitchers because, this year, I wanted to field a team with Honus Wagner ($192,000) and Paul Waner ($120,000), an awesome R-L duo batting 3-4, just to see what would happen by pairing two of the best players of their respective eras on the same squad. Which is the joy of the Winter Game: You can pick from legends like Lou Gehrig, Jackie Robinson, Sandy Koufax, Willie Mays, Yaz, or Ted Williams, Bob Gibson, and Cy Young. You could chant "Spahn and Sain and pray for rain" with Eddie Matthews at third and get the "full career Satchel Paige," not just the "shortened" career stats. Try Sadaharu

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Oh, the Japanese (and world) home run leader, or Buck O'Neill at first. You could even put the 1954 Indians or 1960 Pirates back together for another run at the pennant if you like. The simulation is so real, you can smell the cigar smoke in the grandstand.

Online Management: STATS Online

Each owner gets a weekly report that updates the current standings and league stats, in addition to a printout of all of the week's games. STATS lets owners make roster and lineup changes over a live voice line or by fax. For an additional fee, a special fax service is available that will fax you each night's results (two or three games) so you can look at your team's performance over morning coffee. But, if you're like me, you end up waiting until 3 am for the results to arrive, so that's where STATS Online comes back into play.

In addition to other sports entertainment areas, STATS Online provides electronic access to the Winter Game. Here, you can set rotation, make changes, buy and sell players, all of the stuff you can do in analog fashion. But best of all, you can log on at 9:00 pm on Sunday night to see if you swept the Houston Yankees. Doing this doesn't get you any better of a night's sleep, by the way. Plus, since every transaction costs a dollar (because STATS personnel have to code in the changes manually), making your changes direct to the computer's database waives the transaction charges. STATS is reachable through local TYMNET access points so there is no long distance charge, just a reasonable hourly rate that is not a nuisance once you get the hang of it.

> Babe Ruth this year will cost an owner $285,000, while you can pick up Jose Pagan for $25,000.

While online with the Winter Game, you can also check out all of the league statistics, scout opposing teams, and send email to the other owners in your league. It's very Wintel-centric; a custom Windows-based client software package is available, but I was able to get around the service using the ClarisWorks communications module on my Mac, even though special function keys are sometimes required for tabbing through the fields.

Other STATS offerings that are also available online include Strat-O-Matic Baseball, Fantasy Baseball, Fantasy Football, Basketball, as well as Hockey. Additional features include John

continued on page 168

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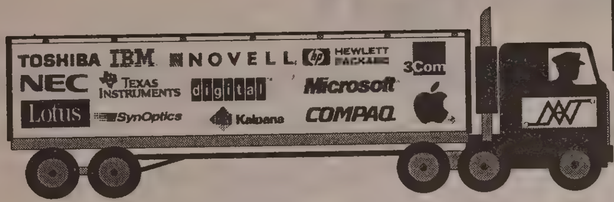
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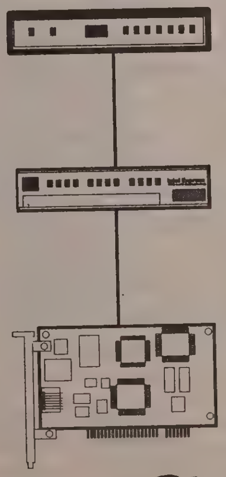

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Online Guide

BY ROBERT MOSKOWITZ

Home Page Structure And Design

Reading Hypertext Documents—Different, But Not Necessarily Better Than Standard Linear Texts

One of the neat things about the World Wide Web—its browser software and Web "pages"—is that by clicking on a highlighted button or word you can issue an automatic command to switch your computer's Internet connection instantly to another part of the same file or even to an entirely different computer on the Internet.

These "jumps" and "links" are relatively easy to program, yet they make a world of difference for those viewing your Web pages. That's because they implement the hypertext nature of the Web. In other words, by means of these jumps and links you can move quickly through acres of information according to your own interests and whims, retracing your steps, moving in wide arcs or circles, crossing and recrossing your own path several times, or making a beeline for the tidbit of data that will transform your life forever.

Unique Considerations

For those interested in using and designing Web pages, a thesis by Peter Foltz at the University of Colorado's Institute of Cognitive Science in 1993, titled *Readers' Strategies and Comprehension in Linear Text and Hypertext* goes heavily into such arcane issues.

For example, Foltz discusses why and how hypertexts (Web documents with jumps and links) present ways of reading that are entirely different from the way we read standard linear texts. Different, but not necessarily better.

While hypertext gives readers more flexibility in finding their own ways through a given bit of text, and in finding the information they want, researchers applying text comprehension theory to compare readers of hypertext and readers of linear text have recently found that people perusing hypertext information nevertheless try to utilize reading strategies that help them maintain a coherent understanding of the structure within the text.

These results suggest that authors of hypertext material—that is, home page writers and other Web jockeys—can improve their readers' comprehension by making it easier to understand the structure of their material and to follow that structure in reading it.

Lara Catledge, a graduate student of information design and technology, and James Pitkow, a graduate student of graphics, visualization, and usability, both at the Georgia Institute of Technology, have recently studied various "browsing behaviors" in great detail. (*Tech Report 95-13*). They found that users engage not only in searching and browsing of the Web, but also a mixed strategy called "search-browsing" or "directed search."

Intuitively, you might guess that browsing and searching are not mutually exclusive. And while they're not in most situations, within the Web's open, collaborative, and dynamic hypermedia system, searchers can easily get sidetracked or lost, while browsers can easily spend hours and find very little of interest. That's why it is important for Web authors to design and implement their pages so as to provide greater support for all types of users. One example of this is the new trend toward making the contents of Web servers completely searchable.

The lack of thoughtful design and support is probably one reason why so many otherwise useful World Wide Web pages are underappreciated and rarely read.

THE LACK OF THOUGHTFUL DESIGN AND SUPPORT IS PROBABLY ONE REASON WHY SO MANY OTHERWISE USEFUL WORLD WIDE WEB PAGES ARE UNDER-APPRECIATED AND RARELY READ.

* * *

Design For Use

The difficulty is designing Web pages to support both ends of the spectrum, from the random browser to the intelligent searcher. For example, the simple logic and hierarchy of a file structure or a searchable database is sufficient to help users who know what they are trying to find. But when someone is just browsing, hoping to find something wonderful, there's little room in such a logical structure for anything surprising to show up.

Based on a recent study covering some thirty-one thousand Web commands issued by hundreds of actual users during a three-week period, Catledge and Pitkow discovered that users

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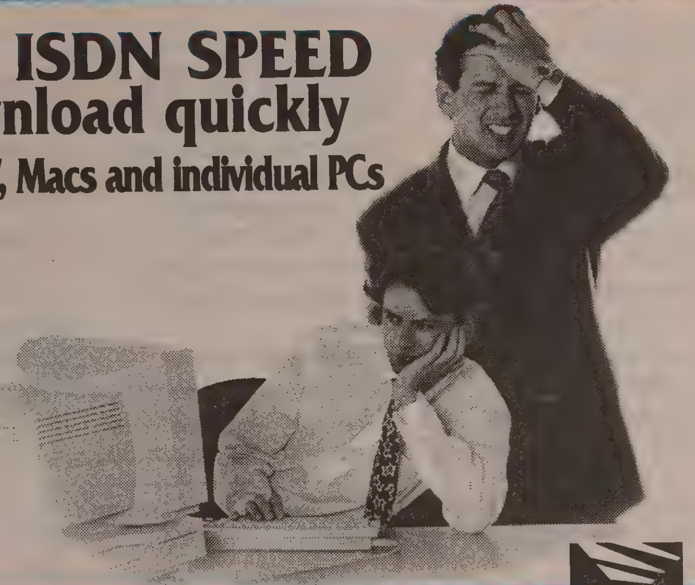

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Home Page Structure & Design *continued...*

greatly prefer to use hypertext jumps and links rather than to issue other kinds of net navigation commands.

The second most popular command was to move back from a current Web document to the previously opened Web document.

What's more, most of these commands were issued graphically, that is, via the mouse rather than the keyboard. More than 52% of all document requests, for example, were made by clicking on a hypertext jump or link.

Catledge and Pitkow concluded that users typically do not know the location of documents before they request them. In addition, by calculating the habits of users, including the number of different servers and files accessed during a given session, and the frequency with which users would follow particular paths through the Internet, the researchers were able to identify three different categories of Web use strategies:

"Serendipitous Browsers" are at one end of the spectrum. They look around for interesting information with no real purpose or direction.

"General Purpose Browsers" have some sense of direction, but browse far and wide around their central theme.

"Intelligent Searchers" have a clear sense of where they want to go on the Web. They typically perform long navigational sequences fairly often, but rarely follow the shorter navigation sequences associated with viewing local files and documents on well-known hosts.

Overall, Web users tend to focus in on one subject area within a page, rather than to read entire pages. They use jumps and links to go back and forth from an opening or home page to other pages until they exhaust their interest in the topic. Then they move on.

A typical user's sequence of page hits might read something like this:

Home Page
Home Page/Sub-Page One
Home Page/Sub-Page One/Sub-Sub-Page One
Home Page/Sub-Page One
Home Page/Sub-Page One/Sub-Sub-Page Two
Home Page/Sub-Page One
Home Page/Sub-Page One/Sub-Sub-Page Three

RESOURCES:

Readers' Strategies and Comprehension in Linear Text and Hypertext
Peter Foltz
http://psych.colorado.edu/ics/tech_rep_93.html

Tech Report 95-13
Lara Catledge and James Pitkow
http://www.cc.gatech.edu/gvu/reports/TechReports95.html

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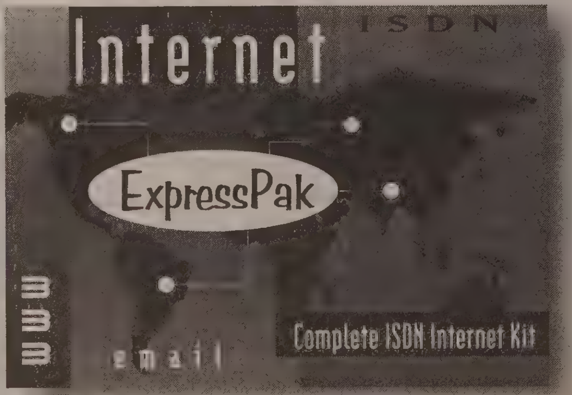

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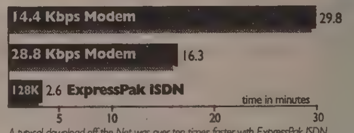

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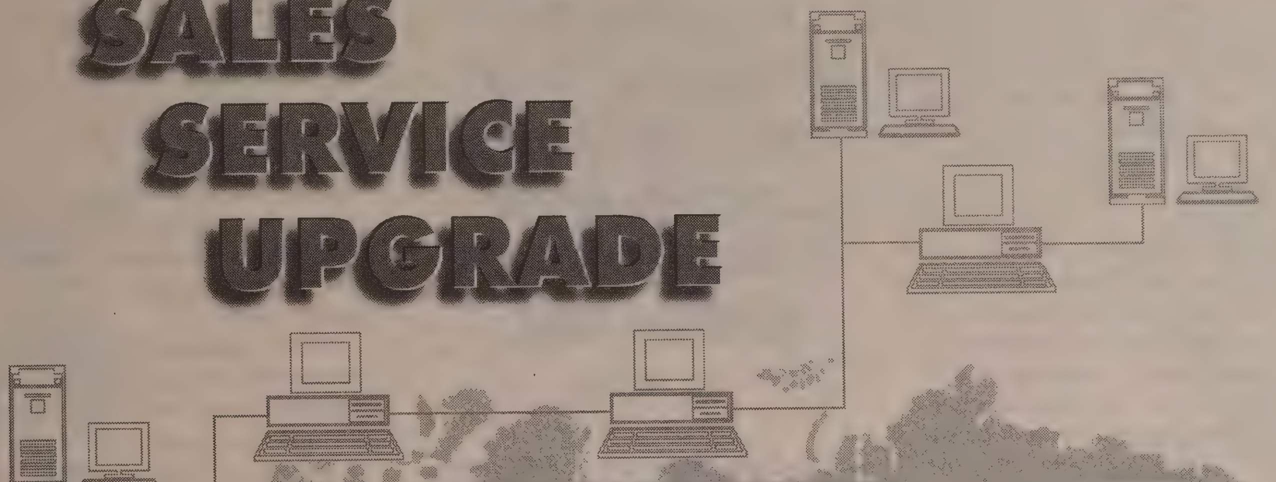

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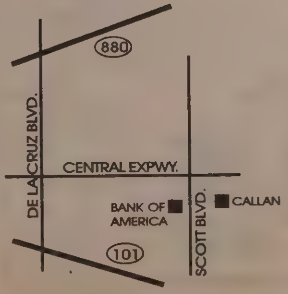

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Home Page Structure & Design *continued...*

Home Page/Sub-Page One

Home Page

Catledge and Pitkow discovered two other important facts about how people tend to use Web home pages:

1) Users rarely go more than two layers deep in any given jump and link structure before returning to their starting page. This pattern apparently holds without regard to the number of links offered.

2) Only about 2% of documents requested from the Internet are actually saved to a file or printed. Without more data, it's impossible to know why most users deem them unworthy of printing or saving. It may be because most Web files are so specialized, or so dynamic and short-lived in importance, or so badly designed, or so easily found a second time. The true answer may lie in a combination of all four.

USERS RARELY GO MORE THAN TWO LAYERS DEEP IN ANY GIVEN JUMP AND LINK STRUCTURE BEFORE RETURNING TO THEIR STARTING PAGE.

* * *

Design Ideas

To make your Web pages more attractive, interesting, and useful to users of all three Web use strategies, it's important to learn from this data.

For example, since it's clear most users are interested in finding the information they want within only two to three jumps from an initial page or entry point, Web page designers should organize their home pages to allow a user great selectivity in his or her initial move onward. However, since too many choices can create a cluttered screen appearance and require more time to select the one best jump or link, page designers face a constant series of difficult choices.

Tactics that provide better use of limited screen space, such as image maps, or alphabetical indices, are among the best avenues to explore in designing more interesting and effective Web pages.

It's also important to bear in mind the different interests of serendipitous browsers, general purpose browsers, and intelligent searchers. If you expect visitors using more than one Web use strategy, you might want to create separate sets of Web pages, each one geared to one particular group.

Many active Web page designers now try to limit the number of jumps they offer on each

continued on page 200

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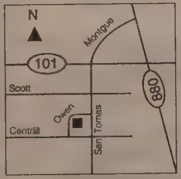

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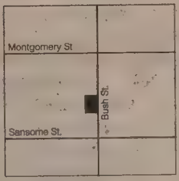

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Caligari Corp. *http://www.caligari.com/* Download free trial version of trueSpace2, the leading 3-D graphics and animation software for Windows. Also, download Fountain, a VRML 3-D browsing and authoring tool. [Exp. #148.]

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CD SourceLine *http://www/cdsourceline.com/cds/* A CD-ROM technology resource center to learn about, evaluate, sample, and shop for CD-ROM titles and books. [Exp. #147.]

CLC Research *http://www.clcr.com/memory/* Upgrade your laptop today. Best price for your Apple, Compaq, and Toshiba laptop memory. [Exp. #148.]

ColorExpert, Inc. *http://www.colorexpert.com* This new site for ColorExpert, a CD-ROM publisher, seeks to share information that creators and producers need for success in digital publishing. [Exp. #149.]

CompuAll Internet Services *http://www.compuall.com/* Internet services, accounting systems, hardware services, network services. [Exp. #149.]

CompuShare, Etc. *http://www.wp.com/cshare/* Specializing in computer hardware and accessories for IBM compatibles and the Commodore computer. [Exp. #148.]

Computer Literacy Bookshops, Inc. *http://www.clbooks.com/* Bookstore specializing in computer books since 1983; mainstream to hard-to-find. Thousands of original, objective book reviews in online database. [Exp. #149.]

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Consultex *http://www.consultex.com/* Electronic publishing firm specializing in desktop publishing, Web development, and graphic design (415/322-3999). [Exp. #148.]

Costar, Inc. *http://www.costar-rep.com/* Costar is a professional electronics components manufacturers representative serving Northern California whose mission is customer service. [Exp. #148.]

Craftwork Solutions, Inc. *http://www.craftwork.com/* Info on Craftwork Solutions, Inc., and Craftworks Linus with hyperlinks. [Exp. #148.]

Darwin Open Systems *http://www.uunet.ca/darwinsys/* UNIX training and consulting. OPEN LOOK and XView CD-ROM contains source for library, many programs in source, and compiles for Minux and SunOS. [Exp. #147.]

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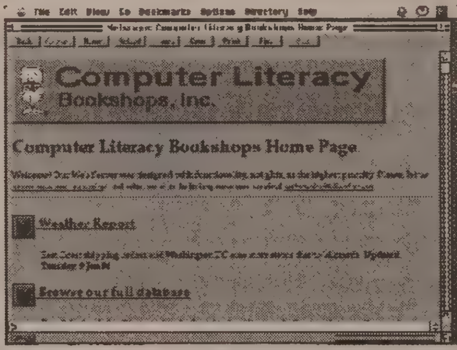

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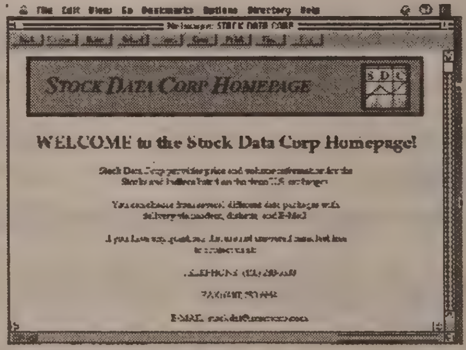
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General Computer Engineering, Inc. *http://www.gcei.com/* A supplier of IBM-compatible hardware products, technical services, and software. Located on Raymond, just north of the 91, in Anaheim. [Exp. #149.]

Glyphics *http://www.glyphics.com/glyphics/* A digital content design firm specializing in broadcast, film, and interactive productions. [Exp. #148.]

Graphics Development International, Inc. *http://gdisoft.com/* GDI gives you tools to scan, design, edit, fill, merge, and print all your forms. [Exp. #147.]

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Maxis *http://www.maxis.com/* Maxis site has been live but in the works since spring, and is being officially unveiled with new features and surprises. [Exp. #148.]

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T2100CT	486DX2/50	8MB	330MB	8.4" Active Clr	$2098.
T2110CS	486DX4/75	4MB	350MB	9.5" Dual Scan	$1698.
T410CDT	Pentium™/90	8MB	772MB+CD	11.3" Active Clr	In Stock
T410CS	Pentium™/90	8MB	772MB	11.3" Dual Scan	$3298.
T400CDT	Pentium™/75	8MB	772MB+CD	10.4" Active Clr	$3798.
T400CS	Pentium™/75	8MB	772MB	10.4" Dual Scan	$2898.
T610CT	Pentium™/90	8MB	686MB	9.5" Active Clr	$3798.

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A550CDT	Pentium™/75	8MB	524MB+CD	Active Clr	$3438.
A550CDS	Pentium™/75	8MB	524MB+CD	Dual Scan	$2858.
A550C	Pentium™/75	8MB	524MB	Dual Scan	$2388.
A450CT	486DX4/75	4MB	340MB	Active Clr	$1998.
A450C	486DX4/75	4MB	340MB	Dual Scan	$1628.

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950N	Pentium™/75	8MB	800MB	10.4" Active Clr	$3698.
950N	Pentium™/90	8MB	800MB	10.4" Dual Scan	$3198.
950N	Pentium™/90	8MB	800MB	10.4" Active Clr	$4198.
950N	Pentium™/90	8MB	1.2GB	10.4" Dual Scan	$3598.
950N	Pentium™/90	8MB	1.2GB	10.4" Active Clr	$4498.
950N	Pentium™/120	8MB	800MB	11.8" Active Clr	$4898.
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T2105CS	486DX2/50	4MB	330MB	10.4" Dual Scan	$1698.
T2155CDS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2598.
T2155CDT	486DX4/75	8MB	520MB	10.4" Active Clr	$3298.
T2400CS	486DX2/50	4MB	250MB	9.5" Dual Scan	$1598.
T2400CT	486DX2/50	8MB	250MB	8.4" Active Clr	$1798.
T2450CT	486DX4/75	8MB	320MB	9.5" Active Clr	$1998.
T3400CT	486SX/33	4MB	120MB	8.4" Active Clr	$1698.
T3400CT	486SX/33	4MB	250MB	8.4" Active Clr	$1798.
T3600CT	486DX2/50	8MB	250MB	8.4" Active Clr	$2498.
T3600CT	486DX2/50	8MB	500MB	8.4" Active Clr	$2698.
T4800CT	486DX4/75	8MB	500MB	9.5" Active Clr	$2698.
T4850CT	486DX4/75	8MB	500MB	10.4" Active Clr	$3198.
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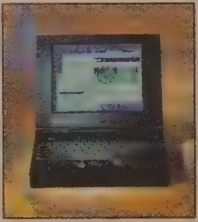

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5000CTS	Pentium™/90	16MB	1.2GB	10.4" Active Clr	$5648.
5000CT/VL	Pentium™/90	8MB	1.2GB	10.4" Active Clr	$4698.
5000CT/VL	Pentium™/90	8MB	810MB	10.3" Dual Scan	$3698.
5000CT/VL	Pentium™/75	8MB	540MB	10.3" Dual Scan	$3148.
4000CT	486DX4/75	8MB	810MB	10.4" Active Clr	$2988.
4000CT	486DX4/75	8MB	520MB	10.4" Active Clr	$2798.

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authorization and electronic sales software for the Macintosh and Windows. [Exp. #148.]

Universal CD-ROM *http://www.bigmall.com/* We sell multimedia CD-ROMs and develop home pages. [Exp. #149.]

Used Computers *http://www.usedcomputer.com/* Nearly one thousand dealers who buy, sell, and trade used computer equipment. Well indexed for quick access. [Exp. #147.]

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BayScenes *http://www.bayscenes.com/* An affordable Web page provider for Northern California for individuals and small businesses. Customers include local bands, artists, craftspersons, sports centers, and nonprofits. [Exp. #147.]

Beach.Net *http://www.beachnet.com/* Provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #148.]

Chinese Big-5 *http://exo.com/~datung* Many useful and interesting Chinese WWW links. Also, Chinese Web page consultant . [Exp. #148.]

Classified Ads In The Bay Area *http://www.hooked.net/users/gcco/* Advertise your car in Automobile section, look at commercial services available in the Bay Area. [Exp. #148.]

Coastal *http://www.the-coast.com/* Reseller of Sun, SGI, Adobe, etc. Total Internet resource, including infrastructure and Web design, development, marketing, firewall, and secure commerce. [Exp. #148.]

Data Concepts *http://www.dataconcepts.com/* Complete Internet advertising. Increase your business for pennies a day. [Exp. #148.]

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OneEarth *http://www.1earth.com/* OneEarth works to increase the impact of the rapidly growing number of philanthropic, health conscious, environmentally conscious, and socially conscious organizations and companies in our communities through the Internet media. [Exp. #147.]

Online Design By Scott E. *http://www.upbeat.com/online/* Free commercial Web page professionally designed and maintained for your business. No per-hit charges. [Exp. #148.]

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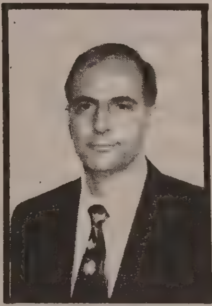

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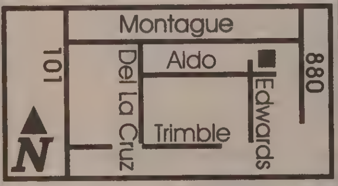

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Value Net Internetwork Services *http://www.value.net* Full-service Bay Area ISP. All 28.8 access, unlimited access. [Exp. #148.]

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Web Diner, Inc *http://www.webdiner.com/* A professional Web site design team. We also run a forum on America Online (keyword: diner). [Exp. #149.]

Webville *http://www.webville.com/* Full-service Web sites you create and manage using only a Web browser. [Exp. #148.]

Wish You Were There *http://www.wishco.com/wish/* Graphical Web page design; digital photo manipulation, enhancement, and restoration; dye-sub and video output. [Exp. #148.]

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ATK Engines *http://www.atk-engine.com/atk* Factory remanufactured engines for American, Japanese, and European cars and trucks. Free delivery in the USA. [Exp. #148.]

Auto-Net *http://we.got.net/autonet/* We are a full-color WWW forum for buying and selling used vehicles in Northern California and beyond. Classic and exotic car section. [Exp. #149.]

BayFront Classifieds *http:// bayfront.com/* Use our search tool to find the ad items you're interested in. Submit free classified ad. [Exp. #147.]

BODY DOUBLES *http://www2.primenet.com/%7Edoubles/* Experience the beauty of youth with Body Doubles' aloe vera and glycolic products. Ask about our complimentary gift: Private Collection Fragrance—Savoir Faire. Please reference WARF 4828 when responding. [Exp. #148.]

Boyden Dental Practice Home Page *http://www.smiledoc.com/dentist/* Tops for a better smile and links to other dental advisories to keep you informed. [Exp. #147.]

CIO Help Desk *http://www.entex-is.com/* ENTEX Information Services' ($2B sales) information-packed site focusing on the needs of the CIO and MIS manager. This sight has been highlighted in *PC Week*, *Infoworld*, *Computerworld*, and *CIO Magazine*. [Exp. #148.]

Credit Card Network *http://www.creditnet.com/* Offering a selection of online credit card applications, plus lists of low-interest, secured, rebate, frequent flyer, and high credit line credit cards. [Exp. #147.]

Decibel Instruments, Inc. *http://www.decibel.com/* Developer and manufacturer of ultra quiet PCs for improved acoustic measurements and for eliminating noise fatigue caused by daily exposure to noisy PCs. [Exp. #149.]

Federal Building Company *http://www.federalbuilding.com/* A design/build residential remodeling firm founded in Oakland in 1925. [Exp. #148.]

FeNiX *http://linex.com/~fenix/* FeNiX business communications: promotes clients' goods and services in all media, from print to video to Web sites. [Exp. #149.]

The Front Window *http://www.joes.com/frontwin/* Quality unique gifts and collectibles, available to order online. [Exp. #148.]

Gone To The Dogs *http://www.calypso.com/g2tdogs/* Dog training service; training articles posted often; training products available online; chat available soon. [Exp. #148.]

Info-Source 1 *http://infosource1.com/* When you need to uncover pertinent information about a person or business, Info-Source 1 has the solution. [Exp. #149.]

International Export Connections *http://www.teleport.com/~iexportc/* Export your products and locate international distributors. Use our libary to get insights into the export market. [Exp. #148.]

KAAM Clearance Connection *http://www.kamconnect.com/* Your wholesale shopping connection. Join our mail list for hot buys. Fund raising program available. [Exp. #149.]

Med X Change *http://www.gate.net/~medxxx/* Offers medical equipment by hundreds of medical equipment dealers. Look for our hot links in the Hospital Web, Hospital NET, and the Victoria Web. [Exp. #149.]

Nicolet: Instruments Of Discovery *http://www.nicolet.com/* A manufacturer of analytical instruments. Products include Fourier transform infrared and Roman spectrometers, microscopes, sampling accessories, and spectroscopy software. [Exp. #147.]

Opamp Labs, Inc. *http://opamplabs.com/* Mfg. of amplifiers, audio, video, industrial, network-feed boxes, switches, transformers, oscillators, and power supplies. [Exp. #148.]

PC Crisis Line *http://www.netbox.com/pccrisis* Telephone support services for personal computer users. Dump the manual, talk to a real person. [Exp. #148.]

Proto Systems *http://www.greatinfo.com/proto/* An interesting mini-mall featuring a self-help bookstore, an electronic Medical Billing service, a computer store, and a credit card store. [Exp. #148.]

Schlage Lock Company *http://www.schlagelock.com/schlage/* Featuring everything from home security tips to a comprehensive history of locks. [Exp. #148.]

So Cal Classified *http://SoCalClassified.com/* Place ads for free. Offers many advanced features. [Exp. #149.]

Team Sports Wear *http://www.teamsports.com/* Web site for first quality, licensed sports clothing and accessories, features CyberCash for secure purchases. [Exp. #147.]

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Tropical Treasures *http://www.pete.com/treasures* Traditional handicrafts from the Kapingamarangan craftsmen in Porakiet village on Pohnpei Island are available on the World Wide Web from Tropical Treasures. [Exp. #148.]

continued on page 202

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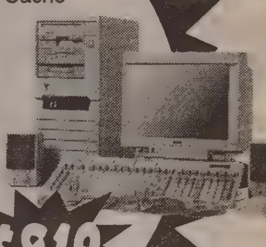

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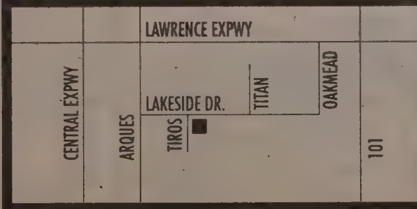

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A486DX4-100/C586-100 Std Mini-Tower w/230W PS 8 MB RAM VLB Dual IDE Fast I/O 1.44 MB FDD WD 850 MB HDD IDE VLB 1 MB SVGA Card 14" .39 SVGA Monitor 101 KeyBoard Serial Mouse 14400 Fax/Modem Internal Mitsumi 4X CD-ROM SoundBlaster 16 MS DOS 6.22 and Win 3.1	Intel "Zappa"90/100/120 Std Mini-Tower w/230W PS 8 MB RAM PCI Enhanced w/Fast I/O 1.44 MB FDD CON/WD 850 MB HDD IDE PCI 1 MB SVGA Card 14" .28 NI SVGA Monitor 101 KeyBoard Serial Mouse 14400 Fax/Modem Internal Mitsumi 4X CD-ROM SoundBlaster 16 MS WIN 95	Pentium 'Triton' P150/166 MHZ Std Mini-Tower w/230W PS 16 MB RAM PCI Enhanced w/Fast I/O 1.44 MB FDD CON/WD 1.2 GB HDD IDE #9 Vision 330 1MB DRAM 15" .28 NI Monitor 101 KeyBoard Serial Mouse 14400 Fax/Modem Internal Mitsumi 4X CD-ROM SoundBlaster 16 MS WIN 95	Pentium Pro 150 MHZ Std Mini-Tower w/230W PS 16 MB RAM PCI Enhanced w/Fast I/O 1.44 MB FDD CON/WD 1.2 GB HDD IDE #9 Vision 330 2MB DRAM 15" .28 NI Monitor KeyTronics K/B LogiTech Mouse 144/288 V.34 Fax/Mod Int TEAC 6X CD-ROM IDE SoundBlaster 16 MS WIN 95	Dual Pentium 100/120 MHZ Dia Med Tower w/220W PS 16 MB RAM PCI SCSI w/Fast I/O 1.44 MB FDD 1 GB Fast SCSI-2 HDD #9 Motion771 4MB VRAM 17" .28 1600x1280 Monitor KeyTronics K/B MS Serial Mouse 144/288 V.34 Fax/Mod Int TEAC 6X CD-ROM IDE SoundBlaster 16 16 Bit Ethernet Coax+10BT MS DOS 6.22 and Win NT
$1140/1180	$1692/1730/1805	$2151/2399	$3,650	$3405/3580

Export-Quality System

Min Qty 5 reqd

Intel Pentium 75 MHz CPU
256 External Cache
tel Triton Chip' based Motherbo
CPU Heat Sink and FAN
Baby AT Case w/230W PS
8 MB RAM
IDE PCI W/2SPG
1.44 MB YE Data Fast FDD
SVGA ISA 512K Video Card
101 K/B (Most Languages)
(Some Language K/B Extra $$)
Serial Mouse
US Assembly and Testing
110V or 220V Testing
Export Quality Packaging

$624

The Thoroughbred Workstations

Hardware platform for Multiple Operating Systems... and Applications demanding Workstation Power...

ASA... ...PCs that really fly on the Information Highway

System Pricing

TYPE OF SYSTEM	BUS Structure	BareBone: Motherboard Mini-Tower Case IDE w/2SPG* 1.44 FDD 101 K/B Serial Mouse	Complete Systems					
			BareBone + 4MB Con 850 14" Mono SVGA VGA 256K Card*	BareBone + 8 MB RAM WD 850 MB IDE 14" SVGA .39 SVGA 512K Card*	BareBone + 8 MB RAM Con 850 MB IDE 14" SVGA .28 SVGA 1MB Card*	BareBone + 8 MB RAM WD 1.2GB IDE 14" SVGA .28 NI SVGA 1MB Card*	BareBone + 8 MB RAM WD 1.2GB IDE 15" SVGA .28 NI SVGA 1MB Card*	BareBone + 16 MB RAM WD 1.2 MB SCSI 17" .28 SVGA SVGA 2MB Card*
DualPentium100 256k	PCI	$1,008					$1,825	$2,464
Intel 'Endeavor' 120 Burst	PCI	$787					$1,610	$2,249
Intel 'Zappa' 100 w/256	PCI	$586				$1,342	$1,415	$2,054
'Triton Chip' 90 w/256k	PCI	$488				$1,240	$1,314	$1,954
'Triton Chip' 75 w/256k	PCI	$404				$1,163	$1,238	
C586-120 W/256K	VLB	$349			$993	$1,088	$1,164	
A486DX4-120 w/256k	VLB	$295		$906	$941	$1,036		
A486DX4-100 w/256k	VLB	$276		$886	$921			
A486DX2-80	VLB	$234	$630	$839				

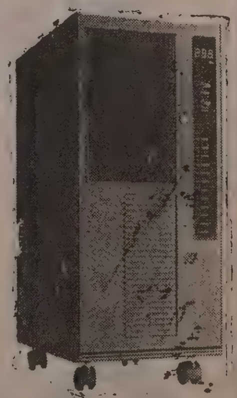
** PCI Systems include PCI IDE Cont W/Fast IO and S3C864 1MB PCI Graphic Card*

** VLB Systems include VLB IDE Cont w/Fast IO and S3C805 1MB VLB Graphic Card*

CPUs: A - AMD; C - Cyrix; I - IBM; i - Intel; Nx - NexGen

Bay Area On-Site Service Available

The Thoroughbred Servers



Outstanding Price Performance and Functionality for Application and Networking Servers

MICRO MARKETPLACE

I/O CARDS

• IO PORTS 4 SERIAL (16550) 2 PAR - BOCA	105
• IO PORTS 4 SERIAL (16550) CARD K535	68
IO PORTS PRINTER CARD	8
IO PORTS RS232 CARD [SERIAL]	9
IO PORTS RS232 CARD [SERIAL]	9
IO PORTS 2 SERIAL (16550), 1 PARALLEL	18

COOLING FANS

FAN FOR 486 CPU	6
FAN FOR PENTIUM 90 CPU	8
FAN TURBO (PC POWER COOLING) FOR CPUs	24
FAN FOR PENTIUM 60/66 CPU	9
FAN FOR CASES 3.125" SQUARE SECOND	6
• FAN FOR CASES 3.62" (PC POWER & COOLING)	28

CABLES

GENERAL CABLES

CABLES FOR IDE HDD OR FLOPPY DRIVES	6
SWITCH BOX ABCD FOR VGA AND KEYBOARDS	24
ADAPTER DB9 M/F TO DB25 M/F	6
POWER ADPATER 5.25" TO 3.5"	5
POWER Y ADAPTER FOR POWER SUPPLIES	5
SWITCH BOX PRINTER 2:1 AUTO	11
SWITCH BOX PRINTER 2:1 BIDIRECTIONL AUTO	44
SWITCH BOX PRINTER 4:1 AUTO	22
SWITCH BOX PRINTER 4:1 BIDIRCTNL AUTO	56
SWITCH BOX PRINTER 4:1 MANUAL ABCD DB25	11
SWITCH BOX PRINTER 2:1 MANUAL AB DB25	16
CABLE FOR FLOPPY DRIVES 5 CONNECTOR	6
CABLE FOR IDE DRIVES 3 CONNECTOR	2
EXTENSION CABLE FOR KEYBOARD	5
LOOPBACK TESTER DB25/DB9	8
EXTENSION CABLE FOR MONITORS 6' DB15 M-F	5
Y-SPLITTER CABLE FOR POWER SUPPLIES	3
PRINTER CABLE 15' MALE TO CENTRONICS	5
PRINTER CABLE 15" DB25 MALE TO MALE	8
PRINTER CABLE 25' MALE TO CENTRONICS	3
PRINTER CABLE 6' MALE TO CENTRONICS	3
PRINTER CABLE 6' DB25 MALE TO MALE	4
SERIAL CABLE RS232 DB25-F TO DB25-M	5
SERIAL MODEM CABLE RS232 DB9F TO DB25M	5
CABLE CROSS RS232 DB25 M TO IDC10 M/B	4

SCSI CABLES

SCSI CONVERTER IDC 68 PIN TO 50 PIN	20
SCSI INTERNAL CABLE RIBBON 3 CONNECTORS	9
SCSI EXT CABLE II TO (CENTRONIC) SCSI-I	26
SCSI EXTERNAL CABLE SCSI II TO SCSI II	34
SCSI INTERNAL RIBBON CABLE 5 CONNECTOR	12
SCSI INTERNAL WIDE 6 CONNECTOR CABLE/RBN	49
SCSI INT 68 PIN WIDE CABLE/FLAT RIBBON	60

TERMINATORS

TERMINATOR SCSI-I CENTRONIC 50 EXTERNAL	8
• TERMINATOR SCSI-3 WIDE EXTERNAL	33
TERMINATOR ACTIVE CENTRONC-50 SCSI-1 EXT	28
TERMINATOR ACTIVE MINI-50 SCSI-2 EXT	40
TERMINATOR SCSI FEED-THRU EXTERNAL	10
TERMINATOR SCSI FEED-THRU INTERNAL	18
TERMINATOR MINI-50 SCSI-2 EXTERNAL	30

CD TITLES

CD BUNDLE MS FAMILY PACK	55
CD BUNDLE MS WORKS + MONEY	25
CD BUNDLE GROLIERS, MAVIS, ATLAS ETC.	33
CD 6 PACK - OCEAN, SPACE, DINO, CAPITOL	54

CD-ROM DRIVES

• CD-ROM CADDY	6
EXT/1HH CASE,SCSI-1 CBL,TERM,ASSEMBLY	78
MITSUMI 4X IDE	92
NEC 4X SCSI CD-ROM CDR511 OEM INTERNAL	209
NEC 512 6X SCSI CD-ROM INTERNAL	270
• NEC 602 6X SCSI CD-ROM EXTERNAL RETAIL	498
• NEC 4X 7DISC CD-ROM CHANGER CDR-C302 EXT	363
SANYO 4X SCSI CD-ROM	132
• SONY 4X IDE CD-ROM	124
SONY 4X SCSI CD-ROM 76S INTERNAL	144
• TEAC 6X CD-56E IDE CD-ROM	159
• TEXEL PLEXTOR 4X SCSI 43CH CD-ROM INT	258
• TEXEL PLEXTOR 6X SCSI CD-ROM INTERNAL	491
TOSHIBA 5302B 4X IDE CD-ROM INTERNAL	124
• TOSHIBA 6X SCSI CD-ROM 3701B INTERNAL	326

COMMUNICATIONS

FAX/MODEMS

FAX/MODEM US ROBOTICS 14400 EXTERNAL	108
• FAX/MODEM US ROBOTICS 14400 EXTERNAL MAC	115
FAX/MODEM US ROBOTICS 14400SI EXTERNAL	86
FAX/MODEM US ROBOTICS 14400 INTERNAL	93
FAX/MODEM US ROBOTICS 14400SI INTERNAL	64
FAX/MODEM US ROBOTICS 28800 EXTERNAL	204
FAX/MODEM US ROBOTICS 28800 INTERNAL	180
FAX/MODEM VOICE US ROBOTICS 28800 EXTRNL	228
FAX/MODEM VOICE US ROBOTICS 28800 INTRNL	209
FAX/MODEM HAYES ACCURA 28800 EXTERNAL	216
FAX/MODEM HAYES ACCURA 28800 INTERNAL	185
• FAX/MODEM HAYES OPTIMA 28800 EXTERNAL	426
• FAX/MODEM HAYES OPTIMA 28800 INTERNAL	367
FAX/MODEM ZOLTRIX OE GEN 14400 EXTERNAL	64
FAX/MODEM ZOLTRIX OR GEN 14400 INTERNAL	39
FAX/MODEM VOICE ZOLTRIX OR GEN 14400 INT	45
FAX/MODEM ZOLTRIX OR GEN 144/28800 EXT	133
FAX/MODEM ZOLTRIX OR GEN 144/28800 INT	123
FAX/MODEM 96/24 INTERNAL ZOLTRIX	23
FAX/MODEM MODEM 2400 BAUD SENDFAX 9600	27

MULTI-PORT COMM CARDS

• MULTIPORT DIGI 16EM EISA/ISA DB25/RJ45	911
• MULTIPORT DIGI 16EM UPGRADE DG25/RJ45	535
• MULTIPORT DIGI 32EM EISA/ISA DB25/RJ45	1374
• MULTIPORT DIGI 8EM ISA DB9/RJ45	667
• MULTIPORT DIGI XEM POWER SUPPLY 120V	28
• USENET-II 4 PORT SERIAL DB25 M/F	224
• PCL 711B PC MULTILAB CARD BY ADVANTECH	183

PCMCIA COMM CARDS

• PCMCIA FAX/MODEM MEGAHERTZ 144 XJ2144	175
• PCMCIA FAX/MODEM MEGAHERTZ 288 XJ2288	280
• PCMCIA ENET/MOD XIRCOM 10BT/144 TYPE II	367
• PCMCIA ENET/MOD XIRCOM 10BT/288 TYPE II	498

ROUTER PRODUCTS

• ROUTER ADTRAN ISDN W/NT1 1200051L1 2X64K	919
• ADTRAN T1/FT1 CSU/DSU #1200060L1	988
• RO: LIVINGSTON V 35 ROUTER CABLE	77
• ROUTER: LIVINGSTON IRX 2T1,2-64K,1E	2548
• RO: LIVINGSTON PM-2ER,10PORT W/ROUTER	2740
• RO: LIVINGSTON PM-2ER,20PORT W/ROUTER	3210
• RO: LIVINGSTON PM-2ER,30PORT W/ROUTER	3567
• RO: LIVINGSTON PORTMASTER-2E,10PORT,1P1E	2113
• RO: LIVINGSTON PORTMASTER-2E,20PORT,1P1E	2876
• RO: LIVINGSTON PORTMASTER-2E,30PORT,1P1E	2940
• RO CABLES FOR SDL 8PORT SERIAL RISCOM/8	51
• RO CABLES FOR SDL RISCOM/N2S & D	55
• ROUTER: SDL 8PORT INTELLIGENT CARD RS232	440

CPU'S

• 387 40MHZ CO-PROCESSOR	28
• 387SX 40 COPROCESSOR	20
INTEL 486 DX4-100 CPU	80
INTEL 486-33 DX CPU	82
TI/CYRIX 486DLC 40 CPU	29
AMD 486 DX4 100 MHZ CPU	61
AMD 486 DX4 120 MHZ CPU	78
AMD 486 DX2 80 MHZ CPU 3.3V	33
AMD 586-133 MHZ CPU	108
PENTIUM 100 MHZ CPU	287
PENTIUM 120MHZ CPU	373
PENTIUM 133 MHZ CPU-INTEL	538
PENTIUM PRO 150 MHZ CPU - INTEL	1526
• PENTIUM 150 MHZ CPU - INTEL	616
• PENTIUM 166 MHZ CPU INTEL	807
PENTIUM 75 MHZ CPU	167

CASES

DIAMOND CASES

DIAMOND BABY AT BEIGE/BLACK KS730	64
DIAMOND BABY AT CASE W/O PS KS730	42
DIAMOND FULL TOWER BEIGE/BLACK KS130	105
DIAMOND FULL TOWER W/O PS KS130	80
DIAMOND MEDIUM TOWER BEIGE/BLACK KS230	91
DIAMOND MEDIUM TOWER W/O PS KS230,8HH	66
DIAMOND MINI TOWER BEIGE/BLACK KS330	67
DIAMOND MINI TOWER BEIGE/BLACK W/O PS	39

EXTERNAL DRIVE CASES

EXTERNAL CASE CHICO 1 HH 3.5" FOR DAT DR	89
EXTERNAL DRIVE CASE 1 FH OR 2 HH	65
EXTERNAL DR CASE 1 HH 5 25" FOR CD-ROMs	47
EXTERNAL DRIVE CASE 1 HH 3.5"	58
EXTERNAL DRIVE CASE 7 HH	201
EXTERNAL DRIVE CASE 2 FULL HT	93

GENERIC CASES

GENERIC BABY AT CASE W/230W PS	41
GENERIC BLACK BABY AT CASE W/230W PS	44
GENERIC FULL TOWER CASE W/250W PS	60
GENERIC FULL TOWER CASE BLACK W/250W PS	68
GENERIC MEDIUM TOWER CASE W/230W PS	51
GENERIC MEDIUM TOWER CASE BLACK W/230W P	59
GENERIC SUPER MINI TOWER CASE W/230W PS	41
GENERIC SUPER MINI TOWER CASE BLACK W/23	50
GENERIC MINI TOWER CASE BLACK W/230W PS	41
GENERIC WORKSTATION/SLIM CASE W/60W PS	48

RACK MOUNTS

	48
RACK MOUNT CASE SLIGER HEAVY W/O PS	354
RACKMOUNT CASE INTEGRAND M505R/223W/110C	516
• RACKMOUNT CASE INTEGRAND M590R/300W	433
• RACKMOUNT CASE INTERGRAND 728-8 8BAY	454
FACE PLATE FOR INTEGRAND RACK MOUNT CASE	15
SLIDES FOR INTEGRAND RACK MOUNT CASES	48

ROADRUNNER QUALITY CASES

ROADRUNNER FULL TOWER CASE W/250W PS	63
ROADRUNNER MEDIUM TOWER W/230W PS	52
ROADRUNNER MINI TOWER CASE W/230W PS	37

SPECIALTY CASES

FCC MINI TOWER CASE W/220W PS	51
LOCKABLE BABY AT CASE W/O PS	96
• MULTIMEDIA BABY AT CASE W/PS SPEAKERS	100
SUPER FILE SERVER KS-011 W/DUAL 300W PS	459

D.A.T. TAPE BACKUP DRIVES

D.A.T. DRIVES

CONNER

• CONNER PYTHON 4324RP DAT 2-4GB INT	846
• CONNER PYTHON CP4324RT DAT 2-4 GB INT	744
• CONNER PYTHON 4326 4MM DAT 4-8GB INTERNL	884

EXABYTE

• EXABYTE EXB4200 2.0GB DAT INTERNAL	732
• EXABYTE EXB4200CI 2-4 GB DAT INTERNAL	869
• EXABYTE EXB4200CE 4-8 GB DAT EXTERNAL	949
• EXABYTE EXB8205 2.5-5GB DAT INTERNAL	1265
• EXABYTE EXB8505XL 10GB DAT EXTERNAL	2078
• EXABYTE EXB8505XL 10GB DAT INTERNAL	1865
• EXABYTE EXB-8700 14GB 8MM DAT EXTERNAL	1996

HP

HP C1533A DAT 4MM 4-8 GB W/O BRACKET	1000
• HP C1534A DAT 4MM 2GB W/O BRACKET	689
• HP C1536A DAT 4MM 4GB W/O BRACKET	810
• HP SURESTORE DAT 6000E 8GB EXTERNAL	1265
• HP SURESTOR DAT 6000I 8GB INTERNAL	1170

ACCESORIES

DAT CARTRIDGE 4 MM 90 METER	13
DAT CARTRIDGE 112 MTR 8 MM	23
DAT CARTRIDGE 4 MM 120 METER	23

TAPE BACKUP DRIVES

CONNER

• CONNER ARCHIVE TAPE DRIVE 2525S 525MB	449
CONNER 250 SCSI TAPEDRIVE EXTERNAL	387
CONNER TRAVAN TST800R 800MB TAPE INTERNA	143
• CONNER TRAVAN TST800E 800MB EXT PAR PORT	246
• CONNER TRAVAN 3.2 GB TAPE DRIVE INT	278
• CONNER 4GB IDE TAPE DRIVE TSM4000R INT	384

COLORADO

• COLORADO DJ25 TAPE DRIVE 700MB INTERNAL	185
COLORADO DJ35D TAPE DRIVE 350MB	116
• COLORADO DJ-50D TAPE DRIVE 1.4GB	233
• COLORADO TAPE FC-10/20 ADAPTER	56
COLORADO HP TRAVAN T1000 800MB TAPE DRIV	168
COLORADO JT25 700 MB EXTERNAL TRAKKER	332

CASSETTES

CASSETTE FORMTTD QIC80 250MB DC2120	12
CASSETTE 800MB FOR T1000 - 3M TRI	31
CASSETTE QIC80 420MB	18
CASSETTE FOR CONNER 850QT 850MB	21

FLOPPY DRIVES

TEAC 1.2 MB FLOPPY DRIVE BLACK	44
TEAC 1 2MB FLOPPY DRIVE	42

HARD DRIVES	HARD DRIVES	Motherboards	Motherboards/CPU'S	Monitors	CD-ROMS
Conner 850	Seagate ST31231N	MB Intel Endeavor	MB 486 VLB Opti	Monitor 15" KFC	Mitsumi/Sony
850MB	1.2GB/SCSI	W/256k	W/AMD dx2-80 CPU	.28 DPI, NI	4x IDE Drive
$179	$334	$312	$124	$284	$95/97
WD 31200A	Seagate ST32550N	MB Intel Zappa	CPU'S	Monitor 17"	Teac 6x
1.2GB	2.5GB/SCSI	W/256k	P133/120/100/90	1280NI	6x CD-ROM
$CALL	$675	$205	$528/351/294/242	$540	$154

ASA COMPONENTS CENTER

DISCOUNT PRICING - SPECIAL CONDITIONS LISTED BELOW TO APPLY

ADDRESS: 200 East Trimble San Jose, CA 95131

FLOPPY DRIVES CONT

TEAC 1.44 MB FLOPPY DRIVE	28
TEAC 1.44MB FLOPPY DRIVE BLACK W/O BRCT	36
YE DATA 1 2MB FLOPPY DRIVE	37
YE DATA 1.44MB FLOPPY DRIVE	24
MOUNTING BRACKET (BLACK) FOR FLOPPY DRIV	8
MOUNTING BRACKET WHITE FOR FLOPPY DRIVE	5

HARD DRIVES

IDE DRIVES

• 1.0 GB IDE HDD SEAGATE ST51080A	224
• 1.08 GB IDE HDD SEAGATE ST 31220A	452
1.08 GB IDE HDD WESTERN DIGITAL 21000	222
1.2 GB IDE HARD DRIVE CONNER CFA 1275A	258
1.2 GB IDE HARD DRIVE CONNER CFS 1275A	240
• 1.2 GB IDE HDD MAXTOR 71260A	245
1.2GB IDE HARD DRIVE FIREBALL QUAN Q1280	227
1.2 GB IDE HARD DRIVE WESTERN DIGITAL	267
• 1.6 GB IDE HDD CONNER CFS1621A	274
• 1.6 GB IDE HDD MAXTOR 71626A	276
1.6 GB IDE HDD WESTERN DIGITAL MODE 4	289
730 MB IDE QUANTUM LIGHTNING	207
730 MB IDE HARD DRIVE WESTERN DIGITAL	223
(WSL) 810 MB HDD CONNER CFA810A	177
850MB IDE HARD DRIVE CONNER	186

SCSI DRIVES

1.06/8 GB SCSI HDD CONNER CFP106/80S	243
1.08 GB SCSI HDD QUANTUM FB1080S	246
1.2GB SCSI HAWK ST31231N 9MS SEAGATE	352
• 1 2 GB HARD DRIVE FUJITSU M1606SA	239
• 2 1 GB SCSI HARD DRIVE CONNER CFP2107S	589
• 2.1 GB SCSI HARD DRIVE CONNER CFP2105S	703
• CONNER 2 1 GB WIDE SCSI HDD CFP2107E	654
• 2.1 GB SCSI HDD QUANTUM XP-32150S ATLAS	845
2.1GB SCSI HDD QUANTUM 32210CP-S CAPELLA	627
2.1GB SCSI HAWK ST32430 9MS SEAGATE	599
• 2.1GB SCSI HDD SEAGATE 32550W WIDE	828
2.5GB SCSI BARA ST32550N 8MS SEAGATE	720
SEAGATE 3 1GB SCSI 43400N	1744
4.0GB SCSI HDD CFP4207S CONNER 7200/8.5	908
• 4.0GB SCSI HDD MICROPOLIS MIC3243	1057
4.2 GB HDD QUANTUM GRAND PRIX 4301S 8 6M	899
• 4.2 GB SCSI HDD QUANTUM GP4301SW WIDE	1030
• 4.2 GB SCSI HDD QUANTUM QM34300SW WIDE	1260
4.2GB SCSI BARA ST15150N 8MS SEAGATE	1110
4.2GB SCSI HAWK ST15230N 9MS SEAGATE	955
• 4.2 GB SCSI HARD DRIVE SEAGATE 15150NW	1177
730 MB SCSI HDD QUANTUM LIGHTENING	174
• 9 GB SCSI HARD DRIVE MICOPOLIS 1991	1989
SCSI 9GB MICROPOLIS 1991AV HARD DRIVE	1900
• 9 GB WIDE SCSI HDD MICROPOLIS 1991W	2164
• 9.1GB SCSI ELITE ST410800N 10MS SEAGATE	2081

101 CLICK KEYBOARD MONTEREY	29
• 101 KEYBOARD IBM 5-PIN DIN	83
101 KEYBOARD JAPANEESE	50
101 KEYTRONICS + LOGITECH SERIAL OEM	40
101 KEYTRONICS + MS SERIAL MOUSE OEM	51
101 KEYBOARD KEYTRONICS SMALL ENTER KEY	25
101 KEYBOARD MITSUMI	12
84 KEYS MINI KEYBOARD BTC-5100	28
101 KEYBOARD MAXI SWITCH	30
101 KEYBOARD MTEK SPILL RESISTANT	13
101 KEYBOARD RUSSIAN	16
101 KEYBOARD SEJIN	15
101 KEYBOARD SI/KME	13
101 KME KEYBOARD + SERIAL MOUSE	19
104 KEY KEYTRONICS WIN 95 KEYBOARD	23
104 KEY MITSUMI WIN 95 KEYBOARD	16
104 KEY MICROSOFT WIN 95 KEYBOARD	57
KEYBOARD ADAPTER	4
KEYBOARD EXTENSION CORD	4
KEYBOARD FOCUS 2001	34
• FOCUS 8000 KEYBOARD W/ CALC	36
KEYBOARD FOCUS 9000	49
QT SCORPIUS 90M KEYBOARD W/TRACKBALL	38
• OMNIKEY 102 12 LEFT FNC KEY, SOME ADJUST	83
• OMNIKEY ULTRA-T 24 FNC KEYS	119
QT SCORPIUS 90M KEYBOARD W/TRACKBALL	44

MOTHERBOARDS

386 MB'S

3/486 MustangO VLB MOTHERBOARD 128k	78
386 MustangO ISA 40MHZ 64/128K M/B W/CPU	88

486 MB'S

486DX MustangB ISA 256K CACHE M/B	78
• 486 AIR 8EISA/3VLB DX4 MB 256K M/B	263
486 ASUS SP3 PCI/VLB IDE IO 256K M/B	137
486 UMC PCI/ISA IDE FAST IO M/B	103
486 ASUS SP3G PCI SCSI IDE IO M/B	235
486 MustangES PCI SIS 256K M/B	101
486 OPTI PCI VLB ISA OPTI M/B	112
486SLC-33 Mustang MOTHERBOARD W/CPU	53
• 586 CapricornNX NEXGEN 90 MHZ VLB	202
• 586 CapricornNX NEXGEN 90 MHZ PCI	252
486 MustangS DX2 3VLB 256K MB SIS	84
• 486 FUGU-TECH VLB 256K MOTHERBOARD	96
486 MustangQ DX4 VLB 256K SIS	92
• 486 PONY DX4 VLB WRITEBACK 256K	76
486 MustangQ DX4 VLB 256K MB OPTI	86

PENTIUM MB'S

PENTIUM TRITON OEM PCI 256K IDE IO	146
• PENTIUM SuperMic(US) TRITON 180 MHZ M/B	246
• PENT TYAN 1468 TITAN III TRITON 256K BUR	198
• PENT TYAN 1468 TITAN III TRITON 256K STN	174

ESIMM 4MB 1X32 70 NS MEMORY	100
ESIMM 4MB 1X36 60 NS MEMORY	132
ESIMM 4MB 1X36 70 NS MEMORY	117
ESIMM 1MB 256X36	36
ESIMM 8MB 2X32 70 NS MEMORY	199
ESIMM 8MB 2X36 60 NS MEMORY	248
ESIMM 8MB 2X36 70 NS MEMORY	236
ESIMM 16MB 4X32 60 NS MEMORY	400
ESIMM 16MB 4X32 70 NS MEMORY	409
ESIMM 16MB 4X36 60 NS MEMORY	467
ESIMM 16MB 4X36 70 NS MEMORY	481
ESIMM 2MB 512X36 60/70 NS MEMORY	78
ESIMM 32 MB 8X32 70NS MEMORY	806
ESIMM 32MB 8X36 70 NS MEMORY	911
• KINGSTON 32MB MEMORY MODULE FOR COMPAQ	1290
• KINGSTON 4MB 1X32 70NS ESIMM KTH-NPVEC/4	159
• KINGSTON 8MB 2X32 70NS ESIMM MEMORY	292
• KINGSTON 16MB 4X32 60NS ESIMM MEMORY	560
• KINGSTON 16MB 4X36 70NS ESIMM MEMORY	651
• KINGSTON 4MB 70NS 30PIM SIMM MEMORY	166
• KINGSTON 32MB 8X36 60NS ESIMM MEMORY	1266
16MB 16X9 70NS SIMMS	456
SIMM 1MB 1X9 [3 CHIP] 60 NS MEMORY	38
SIMM 1MB 1X9 BP [3 CHIP] 70 NS MEMORY	27
SIMM 1MB 1X9 [3 CHIP] 70NS MAJOR MEMORY	37
SIMM 1MB 1X9 [9 CHIP] 70 NS	41
SIMM 256K	10
SIMM 4MB 4X9 MAJOR [3 CHIP] 60 NS MEMORY	142
SIMM 4MB 4X9 BP [3 CHIP] 70 NS MEMORY	102
SIMM 4MB 4X9 [9 CHIP] 70 NS MEMORY	139
SIMM CONVERTER 30 PIN TO 72 PIN	28

14"

14" SVGA .39 DPI 1024 MONITOR	179
• 14" SVGA NI BLACK CASING MONITOR	256
• 14" KFC DIGITAL SVGA .28 NI MONITOR	300
14" MONO AMBER MONITOR	69
14" MONO VGA PAPERWHITE MONITOR	84
• 14" HP VGA PAPERWHITE MONITOR MONOCHROME	204
• 14" MONO WHITE MONITOR IQ SM1411	81
14" CTX SVGA 28 1024 INTERLACED MONITOR	235
14" CTX SVGA .28 1024X768 NI MONITOR	242
14" IMPRESSION .28 DPI SVGA NI MONTITOR	217
14" MGC .28 DPI SVGA NI MONITOR	217
• 14" VIEWSONIC 6 SVGA NI MONITOR	262

15"

• 15" CTX SVGA LOW RAD MONITOR 1562GM	338
15" KFC SVGA .28 1280 NI MONITOR	298
15" KFC DIGITAL SVGA 1280 .28 MONITOR	370
• 15" MGC SVGA .28 1280 NON-INT MONITOR	308
15" MAG DX15/DIGITAL 1280NI .28 MONITOR	376
• 15" NEC XV-15 MONITOR	472

10BT CRIMPING TOOL 8C	28

NETWORK CARDS

3 COM 3C509 EIII COAX CARD BULK	88
3 COM 3C509 EIII AUI,10BT,10B2-BULK PK	91
3 COM 3C509 EIII-AUI/10BT,10B2-KIT	117
3 COM 3C509 EIII COAX KIT	108
3 COM 3C509 EIII 10 BASE T BULK	57
• 3 COM 3C509 EIII 10 BASE T 60 PACK	4238
3 COM 3C509 EIII TPO 10BT KIT	100
• 3 COM 3C529 EISA COAX BULK	230
• 3 COM 3C529 10 BASE T 30 PACK	5365
3 COM 3C579 COAX/10BT RETAIL PACK	222
3 COM 3C579 COAX/10BT BULK PACK	192
3 COM 3C590 EIII PCI COMBO CARD	144
3 COM 3C590 EIII PCI COMBO KIT	159
3 COM 3C595-TX 10/100BT PCI KIT	157
• ARTISOFT AE-2 CARD	201
• ARTISOFT AE-2 KIT	469
• ARTISOFT AE-3 CARD	239
• ARTISOFT AE-3 KIT	547
• ARTISOFT LANTASTIC NODE RUNNER 2000C CRD	175
• INTEL ETHEREXP PRO 10/100 PCI 10BT	212
• INTEL ETHEREXPRESS PRO 16 COMBO CARD	99
INTEL ETHEREXPRESS PRO 10BT ONLY BULK	86
• LANTASTIC 6.0 SOFT-1PK DOS/WIN	83
• MICRODYNE NE2000T+ 10BT NIC (EAGLE) BULK	67
NE2000+ COMP ISA COMBO CARD CELAN	29
NE2000+ COMP ISA COMBO NOVELL APPROVED	24
NE2000+ COMP PCI COAX/10BT CARD	69
• NE2000+ COMP ISA 10BT NOVELL APPROVED	22
AUI EXTENSION CABLE FOR NE2000CTE CARD	6
• BOOTROM FOR NE2000+ ENET CARDS	20
• POCKET LAN ADAPTER	98
• SMC ETHERPOWER 10/100 32-PCI 10BT+DB9	141
SMC ULTRA ELITE 16 COMBO CARD	101
SMC ETHEREZ ETHERNET COMBO CARD BULK	100
• SMC ETHEREZ ETHERNET 10BT CARD BULK	81
• SMC ULTRA COAX 16 ETHERCARD BULK	93

HUBS

• HUB 3COM 3C16674 LB FMS-II 48 PORT PACK	2300
• HUB: 3COM 3C16630 LB FMS-II MGMNT MOD	436
• HUB: 3COM 3C150000 V3. WORKGROUP MGR	442
HUB 8 PORT LAN PROFESSIONAL +1 BNC	87
• HUB 12 PORT ASANTE 10T/12 1BNC 1AUI	259

REMOVABLE DRIVES

• IOMEGA 100 MB ZIP DRIVE PAR/SCSI EXTERNL	207
• IOMEGA CARTRIDGE 100 MB ZIP SINGLE PACK	14
• SYQUEST 270MB SCSI REMOVABLE DRIVE	336
SY 270MB REMOVABLE CARTRIDGE	66
SYQUEST 88MB REMOVABLE DRIVE	291
SYQUEST 88MB REMOVABLE CARTRIDGE	95

LOGITECH 18T MOUSE SERIAL BULK	19
AGILER OR ARTEK AM25/9 MOUSE SERIAL	8
• LOGITECH MOUSEMAN BUS (RETAIL)	79
• LOGITECH MOUSEMAN SERIAL (RETAIL)	53
BLACK MOUSE SERIAL GENERIC	10
MOUSE PADS GENERIC	2
• MICROSOFT BUS MOUSE (RETAIL)	90
MICROSOFT BUS MOUSE BULK	76
• MICROSOFT MOUSE SERIAL (RETAIL)	64
MICROSOFT SERIAL MOUSE BULK	32
MICROSOFT PS/2 MOUSE BULK	36
TRACK BALL DEVICE GENERIC	20
• LOGITECH TRACKMAN SERIAL (RETAIL)	74

U.P.S.

• APC POWER CHUTE FOR NOVELL AP9003	68
• APC POWERCUHUTE PLUS FOR UNIX AP9004	106
• APC POWERCHUTE PLUS FOR WIN NT	67
• APC BACK-UP BK1200 UPS	386
• APC BACK-UPS BK1250 UPS (SEE APC1200)	480
APC BACK-UPS BK280 UPS	97
APC BACK-UPS BK400 UPS	139
APC BACK-UPS BK450 UPS	170
APC BACK-UPS BK600 UPS	235
• APC BACK-UPS BK900 UPS	335
• APC BACK-UPS PRO 280 VA	167
• APC SMART-UPS SU1000 UPS	472
• APC SMART-UPS SU1400 UPS	591
• APC SMART-UPS SU2200 UPS	1146
• APC SMART-UPS SU3000 UPS	1680
APC SMART-UPS SU400 UPS	275
• APC SMART-UPS SU450 UPS	300
• APC SMART-UPS SU700 UPS	380
• APC SMART-UPS SU900 UPS	430
• APC SMART-UPS V/S SUVS1000 UPS	426
• APC SMART-UPS V/S SUVS1400 UPS	543
• APC SMART-UPS V/S SUVS420 UPS	237

VIDEO CARDS

#9 FX MOTION 771 PCI 2MB VRAM OEM	263
#9 FX MOTION 771 PCI 4MB VRAM OEM	386
#9 FX MOTION 771 PCI 4MB VRAM RETAIL	439
• #9 IMAGINE 128 PCI 8MB VRAM	1338
#9 VISION 330 S3TRIO PCI 1MB DRAM	125
• #9 VISION 330 S3TRIO VLB 1MB DRAM	132
#9 VISION 330 S3TRIO PCI 2MB DRAM	158
• #9 VISION 330 S3TRIO VLB 2MB DRAM	160
ATI WINTURBO MACH64 PCI 2MB OEM VRAM	243
ATI WINBOOST MACH64 PCI 2MB OEM DRAM	161
• ATI WINBOOST MACH64 VLB 2MB OEM DRAM	168
• ATI WINTURBO MACH64 VLB 2MB OEM VRAM	261
• ATI WINTURBO MACH64 PCI 4MB VRAM	442
ATI WINTURBO MACH64 PCI 4MB OEM VRAM	401

MOUNTING BRACKETS

MOUNTING BRACKET FOR HARD DRIVES	3
MOUNTING BRACKET FOR BARRACUDA DRIVES	8

HARD FLOPPY CONTROLLERS

• ADAPTEC AVA 1505 SCSI-2 CD-ROM KIT	50
ADAPTEC 1522 ISA SCSI CARD	71
ADAPTEC 1522 ISA SCSI KIT	134
ADAPTEC 1542 ISA SCSI CARD	170
ADAPTEC 1542 ISA SCSI KIT	244
• ADAPTEC 2742 EISA SCSI CARD	293
• ADAPTEC 2742AK EISA SCSI KIT	297
• ADAPTEC 2742AT EISA SCSI CARD	323
• ADAPTEC 2742ATK TWIN EISA SCSI KIT	349
• ADAPTEC 2742 WIDE EISA SCSI KIT	385
• ADAPTEC 2842 VLB SCSI CARD	174
• ADAPTEC 2842 VLB SCSI KIT	229
ADAPTEC A2940 PCI SCSI CARD	199
ADAPTEC A2940 PCI SCSI KIT	246
• ADAPTEC A2940UW ULTRA WIDE PCI SCSI KIT	305
ADAPTEC 2940W PCI SCSI CARD(CBL EX $25)	252
• ADAPTEC 3940 PCI SCSI KIT	412
• ADAPTEC 3940W PCI WIDE SCSI KIT	476
• ADAPTEC 3985 PCI SCSI RAID MULTI-CH KIT	730
• Buslogic KT-410A VLB IDE CACHING KIT	117
• BUSLOGIC BT-445C VLB SCSI CARD	165
• BUSLOGIC KT-445C VLB SCSI KIT	202
• BUSLOGIC BT-545C ISA SCSI CARD	156
• BUSLOGIC KT-545C ISA SCSI KIT	215
• BUSLOGIC BT-747C EISA SCSI CARD	304
• BUSLOGIC KT-747C EISA SCSI KIT	317
• Buslogic KT-757C EISA WIDE/FAST SCSI KIT	385
• Buslogic KT-910A PCI IDE CACHING KIT	162
Buslogic BT-946C PCI SCSI CARD ONLY	177
Buslogic KT-946C PCI SCSI KIT	236
BUSLOGIC BT-956C PCI WIDE SCSI CARD ONLY	224
• BUSLOGC BT-956CD PCI WIDE DIFF SCSI CARD	366
IDE ISA 2HDD/2FDD W/ 2SPG CARD	10
• IDE 2FDD/2HDD 2SPG K-WELL 557A	19
TYAN IDE IO W/16550 UARTS	19
NCR 810 CHIP PCI SCSI CARD (ASUS SC-200)	68
NCR 815 CHIPSET PCI SCSI CARD W/FLASH B	102
• NCR 825 CHIPSET PCI SCSI CARD	114
PCI IDE IO W/16550 UARTS	34
• PROMISE 200 ISA IDE CACHING CONTROLLER	98
PROMISE 2300 VLB IDE IO W/16550 CONT	47
PROMISE 4030 VLB IDE CACHING CONTROLLER	86
• PROMISE 5030 PCI IDE CACHING CONTROLLER	125
• PROMISE 540 PCI FAST WIDE SCSI CONTROLLR	184

KEYBOARDS

101 KEYBOARD BLACK	23
101 KEYBOARD BTC	15

PENT DUAL TYAN <=166,512K-ASY,5EISA,4PCI	463
• PENT DUAL TYAN <=133,512K-SYNC,5EISA4PCI	627
PENTIUM Intel PCI ISA 60/66 W/VGA IDE IO	220
• PENTIUM PRO ASUS 150 MHZ M/B W/CPU	2072
• PENTIUM ASUS PCI/ISA P55TP4XE 256K BURST	205
• PENTIUM ASUS PCI/ISA P55TP4XE 512K BURST	252
• PENTIUM ASUS PCI/ISA P55TP4 256K STND	218
256K PIPELINE BURST CACHE SYNCHRONOUS	41
• 512K PIPELINE BURST CACHE SYNCHRONOUS	148
• PENTIUM PRO INTEL 150 MHZ M/B W/CPU	1786
PENTIUM INTEL ZAPPA 256K ASY CACHE,IDEIO	219
• PENTIUM Intel ATLANTIS 0K (NO) CACHE	336
• PENTIUM DUAL ASUS 75-133 MHz PCI/EISA MB	605
• PENTIUM DUAL ASUS 75-133 MHz PCI/ISA MB	338

ACCESSORIES

256K PIPELINE BURST CACHE SYNCHRONOUS	41
• 512K PIPELINE BURST CACHE SYNCHRONOUS	175
(WSL) SPECIAL INTEL M/B FOR BSDI	204
BATTERY FOR MOTHERBOARD CMOS	10
• CACHE UPGRADE 256K TO 512K REGULAR ASYNC	50
CABLE SET FOR MOTHERBOARDS	9

MULTI MEDIA

QUICKSHOT JOYSTICK FOR COMPUTER GAMES	12
COMPUTER MICROPHONE	5
PRO AUDIO 16 BASIC	58
SOUND BLASTER 16 VALUE EDITION RETAIL	93
• SOUNDBLASTER 16 IDE VIBRA OEM	83
SOUNDBLASTER 16 VIBRA PLUG-N-PLAY OEM	71
• SOUNDBLASTER AWE 32 VALUE EDITION OEM	109
SOUNDBLASTER ASP CHIP	52
• SOUNDBLASTER AWE 32 RETAIL PACK	216
SOUND BLASTER PRO VALUE EDITION	53
• SOUND BLASTER SCSI-2 16 OEM	132
SPEAKERS LABTEC LCS 150 NEW VERSION	18
SPEAKERS 100 WATT	41
SPEAKERS LABTEC CS600	24
SPEAKERS Z	5

MEMORY

DRAM

• DRAM 1MB-8	5
• DRAM 256K-80	5
• DRAM 256KX16 70NS FOR VIDEO CARDS	23
• DRAM 4X256K-8	5

EDO-RAM

EDO ESIMM 4MB 1X32 60NS MEMORY	107
EDO ESIMM 8MB 2X32 60 NS MEMORY	215
EDO SIMM 16MB 4X32 60 NS MEMORY	458
EDO SIMM 32MB 8X32 60NS MEMORY	917

PARITY/NON-PARITY SIMMS

• ESIMM 64MB 16X36 70 NS MEMORY	2374
ESIMM 4MB 1X32 60 NS MEMORY	117

• 15" SONY CPD15SF MONITOR	474
• 15" SONY TRINITRON TUBE OEM MONITOR	424
• 15" VIEWSONIC 15GS SVGA MONITOR	454

17"

• 17" BLACK CASING SVGA MONITOR	714
• 17" IDEK IYAMMA 8617E MONITOR	740
17" KFC 1716DL DIG NO LCD .28 MONITOR	583
17" KFC 1718DL DIGITAL W/LCD .28 MONITOR	653
17" MAG DX17F/DIGITAL 1280NI .26 MONITOR	665
17" PRINCETON GRAPHICS 1280NI 28 MONITR	571
• 17" MAG MXP17F 1600X1280 .26 MONITOR	834
• 17" NEC XP-17 MONITOR	1057
• 17" NANAO F2-17EX MONITOR	1025
• 17" NANAO T2-17 TRINITRON MONITOR	1312
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• 17" SONY 17SF MONITOR 1280NI 25/DIGITAL	888
• 17" SONY TRINITRON TUBE OEM MONITOR 1864	752
• 17" SONY TRINITRON TUBE OEM MONITOR 1882	948
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20"

• 20" HITACHI CM2011 MONITOR	1361
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21"

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• 21" NEC XE-21 MONITOR	1711
• 21" NANAO .25MM TCO MONITOR	3046

ACCESORIES

EXTENSION CALE FOR VGA MONITOR	4
POWER ADAPTER FOR MONITOR	3

NETWORK CABLES

COAX NET CABLE 10'	6
• COAX NET CABLE 100'	20
COAX NET CABLE 1000' SPOOL	190
COAX NET CABLE 25'	8
COAX NET CABLE 50'	13
COAX BNC CONNECTOR CRIMP-ON	1
COAX BNC T-CONNECTOR FEMALE/MALE/FEMALE	2
COAX BNC TERMINATOR 50ohm	1
COAX BNC CRIMPING TOOL RG58 RG59	30
• 10BT NET CABLE 1000' LEVEL 5 (PLENUM)	160
• 10BT NET CABLE 1000' LEVEL 5 (PVC)	200
10BT NET PATCH CABLE 14' 8P8C LEVEL 5	7
10BT NET PATCH CABLE 25' 8P8C LEVEL 5	8
10BT NET PATCH CABLE 7' 8P8C LEVEL 5	6
• 10BT JACK SURFACE MOUNT 6P4C SINGLE	2
• 10BT JACK SURFACE MOUNT 8P8C SINGLE	2
• TRANSCEIVER AUI MALE TO BNC/10BT	56

SOFTWARE

UNIX BY BSDI

• BSDI/SERVER BINARY LICENSE 16 USER	995
• BSDI/SERVER BINARY W/SOURCE 16 USER	2995
• BSDI/SERVER BINARY LICENSE 64 USERS	1995
• BSDI/SERVER BINARY W/SOURCE 64 USERS	3995
• NFR INDIV/ACAD BSDI/SERV BINARY NO LIMIT	545
• NFR IND/ACAD BSDI/SERV BIN W/SRCE NO LMT	1045
• BSDI/SERVER BINARY LICENSE NO LIMIT	3524
• BSDI/SERVER BINARY W/SOURCE NO LIMIT	5877

APPLICATIONS

MS OFFICE FOR WINDOWS PRO 4.3 RETAIL	534
MS OFFICE OEM 3.5" (WIN95) W/SYSTEM	293
MS OFFICE OEM CD (WIN95) (W/SYSTEM)	270
MS OFFICE OEM 3.5" (WIN3.1) W/SYSTEM	293
MS OFFICE OEM CD (WIN3.1) W/SYSTEM	259
• MICROSOFT WORD 6 0 OEM (W/SYSTEM)	178
• MICROSOFT WORKS OEM (W/SYSTEM)	75

NETWARE BY NOVELL

• NETWARE 3.12 10 USER (W/HARDWARE)	1120
• NETWARE 3.12 100 USER (W/HARDWARE)	2576
• NETWARE 3 12 25 USER (W/HARDWARE)	1624
• NETWARE 3.12 5 USER (W/HARDWARE)	493
• NETWARE 3.12 50 USER (W/HARDWARE)	1904
• NETWARE 3.12 250 USER (W/HARDWARE)	4256
• NETWARE 4.1 10 USER (W/HARDWARE)	1488
• NETWARE 4.1 100 USER (W/HARDWARE)	2464
• NETWARE 4.1 25 USER (W/HARDWARE)	1344
• NETWARE 4.1 250 USER (W/HARDWARE)	4256
• NTEWARE 4.1 5 USER (W/HARDWARE)	504
• NETWARE 4.1 50 USER (W/HARDWARE)	1792

OPERATING SYSTEMS

MICROSOFT DOS6 22 (W/SYSTEM ONLY)	36
DOS 6.22O + WIN 3.1 OEM (W/SYSTEM ONLY)	83
DOS 6.22O WFW 3.11 (W/SYSTEM ONLY)	92
• DOS 7.0 BY NOVELL	52
WINDOWS 3.1 OEM (W/SYSTEM ONLY)	46
MS WINDOWS 95 FULL OEM 3.5" (W/SYSTEMS)	99
MS WINDOWS 95 FULL VER CD-ROM (W/SYSTEM)	96
• MS WINDOWS 95 FULL VERSION RETAIL CD	188
• MS WINDOWS 95 UPGRADE RETAIL	100
• WINDOWS NT WORKSTATION (RETAIL)	242
• WINDOWS NT OEM WORKSTATION (W/SYSTEM)	242
• WINDOWS NT SERVER (RETAIL)	650
• MS WINDOWS NT SERVER+10 STATION LIC (RET	982
WINDOWS FOR WORK GROUP 3.11 (W/SYSTEM)	54
• NOVABACK BACKUP SOFTWARE FOR DOS/WIN/OS2	61

MICE

LOGITECH BUS MOUSE BULK	38
• LOGITECH CORDLESS MOUSE	84
LOGITECH MOUSEMAN 3-BUT SERIAL BULK	26

• ATI WINTURBO MACH64 VLB 4MB OEM VRAM	404
DIAMOND STEALTH 64 PCI 1MB DRAM	122
• DIAMOND STEALTH 64 VLB 1MB DRAM	121
DIAMOND STEALTH 64 PCI 2MB DRAM	152
• DIAMOND STEALTH 64 VLB 2MB DRAM	158
DIAMOND STEALTH 64 PCI 2MB VRAM	252
• DIAMOND STEALTH 64 VLB 2MB VRAM	256
DIAMOND STEALTH 64 PCI 4MB VRAM	402
• DIAMOND STEALTH 64 VLB 4MB VRAM	403
MONO GRAPHICS PRINTER CARD	11
• MATROX MILLENIUM PCI 2MB WRAM RETAIL	330
• MATROX MILLENIUM PCI 4MB WRAM	514
2MB UPGRADE MEMORY FOR MATROX MILLENIUM	190
• 4MB UPGRADE FOR MATROX (4MB TO 8MB)	339
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• PCI MATROX IMP 4MB VGA CARD	560
PCI VGA ET4000 W32 1MB CARD	96
PCI VGA CIRRUS LOGIC CARD 1MB	93
PCI VGA TRIDENT 9440 1MB	62
PCI VGA TRIDENT 9440 2MB	107
ISA VGA CARD TRIDENT 8900/CL5422 1MB	54
ISA VGA CARD T/O 256K	27
ISA VGA CARD CL5422 1MB	57
ISA VGA CARD T/O 512K	32
ISA VGA TSENG 1MB ET4000	72
VLB VGA S3C805 1MB	62
VLB VGA S3C805 2MB	106
VLB VGA TRIDENT 9440 1 MB	54
VLB VGA TRIDENT 9440 2MB	104
VLB VGA CIRRUS LOGIC 1 MB CL5428/9	74

POWER SUPPLIES

• AMERICAN ENHANCE 300W PS2/FT 3.3 VOLTS	109
• AMERICAN ENHANCE 200W PS2 UL CSA POWER	42
AMERICAN ENHANCE 300W PS2 UL CSA	82
AMERICAN ENHANCE 300W FULL TOWER UL CSA	78
GENERIC POWER SUPPLY AT W/SWITCH ON SIDE	32
GENERIC POWER SUPPLY FULL TOWER 230W	49
GENERIC POWER SUPPLY FULL TOWER 300W	76
GENERIC POWER SUPPLY FULL TOWER 400 WATT	162
GENERIC POWER SUPPLY MT/PS2/BABY AT 220W	29
GENERIC POWER SUPPLY MINI-TOWER 250W	30
GENERIC POWER SUPPLY BABY 300W	42
GREEN POWER SUPPLY MINI TOWER 200W	40
GREEN MINI TOWER 250W POWER SUPPLY	42
• PC POWER & COOLING 270 W PS/2	168
RUSSIAN POWER CORD	2
SURGE PROTECTOR	4

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HP 660C DESKJET (FOR PC) PRINTER	420
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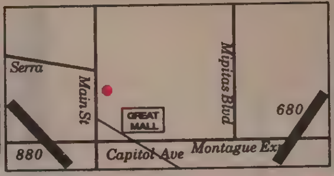

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P5-75	$1670

CONTROLLERS

IDE W/ I/O / I/O w/ 1p,2s,1g	14/12
IDE VESA Local Bus	20
Enhanced IDE VLB w/16550	30
PCI IDE/PCI IDE w/16550	25/35
Adaptec SCSI 1522	77
Adaptec SCSI 1542CFP/1542CFP w/Kit	178/240
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*1.44 Teac FD
*Mitsumi 104 Win '96 Keyboard
*MGC15"SVGA NI Monitor .28dp (1280X1024)
*540 MB IDE Hard Drive
*Mini Tower Case w/230W
*MS Compatible Serial Mouse
*4xi CD-ROM
*Soundblaster 16 bit sound card
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SVGA-512/1MB (1024x768,16bit)	$38/58
❖DIAMOND	
Stealth SE VLB/PCI w/1MB (Trio S3-732)	85
Stealth Video 2001 PCI w/ 1MB DRAM (S3-764)	123
Stealth Video 2001 PCI w/2MB DRAM(S3-764)	165
Stealth 64 Video PCI w/2MB/4MB VRAM	245/390
Edge 3D 2120XL PCI w/ 1MB DRAM	220
Edge 3D 3240XL PCI w/ 2MB VRAM	420
❖SPIDER	
LYNX 64 PCI 1M/2MB DRAM (IGS)	68/116
Tarantula 64 MK II VLB/PCI 2MB/4MB VR(S3-968)	220/340
Tarantula Lite PCI w/1MB/2MB DRAM (S3)	88/125
32VESA Local Bus w/1MB/2MB (Cirrus)	76/126
32VLB Plus w/1MB/2MB	83/129
256 CACHE VLB w/1MB/2MB DR(CHIPS)	80/125
❖MATROX	
MGA Millenium PCI w/2MB/4MB VRAM	315/455
❖ATI	
ATI Mach64 WinTurbo PCI w/2MB/4MB VRAM	235/410
ATI Winboost VLB/PCI w/1MB/2MB DRAM	130/175
ATI Winturbo 1600 PCI w/2MB/4MB VRAM	280/420

FAX MODEM

❖ZOLTRIX	
Fax Modem (14400 F, 14400 M) Int / Ext	48/83
Fax Modem 14.4 voice	58
Fax Modem 28,800 V.34/ w Voice	120/145
❖US ROBOTICS	
Sportster Fax/Modem 14,400 Int/Ext	94/120
Sportster v.34 28,800 Int/Ext /28.8 w/voice	186/227
Sportster v.34 28,800 Int w/voice	206

Superior Performance Pentiums

*Intel Triton Endeavor PCI MB w/256k Pipelined burst cache
* 32MB - EDO RAM
* 1.44 Teac FD (3.5")
* Integated PCI IDE w/1p,2s,1g
* Integrated Vibra 16 bit SB
* Teac 6xi EIDE CD ROM
* Spider Tarantula 64 MK II w/ 2MB VRAM w/MPEG SW
* Mag DX1795 17"SVGA 1280 x 1024 .26 dp
* 1.2 GB EIDE Hard Drive
* Medium tower Case w/ 230W
* Keytronics 104 w/Win '95 key
* MS Compat. Mouse w/ Pad
* Free CPU Fan

P5-166 MHZ	$3090
P5-150 MHZ	$2855
P5-133 MHZ	$2850
P5-120 MHZ	$2680
P5-100 MHZ	$2610
P5-90 MHZ	$2585
P5-75 MHZ	$2500

MONITORS

❖NANAO	
F2-15/F2-17/F2-17EX	530/840/950
T2-17TS/T2-17/T2-20	1010/1215/1875
❖NEC	
XP15/XE15/XV15 Plus	580/570/470
XE17/XP17/XV17 Plus	999/1020/790
XE21/XP21	1640/1870
❖MAG	
DX1595/DX1795(1280x1024)/MXP17F	365/670/835
DX15T/DX17T (Trinitron .25DP)	450/785
Princeton EO 15/ Ultra 17 Plus	365/684
❖SONY	
GDM20SF2/17SF2/15SF	1733/835/475
❖HITACHI	
CM1711/CM-2011(20")	835/1290
CM-1587MV	370
❖VIEWSONIC	
15G/15ES/15GS/15GA	435/375/440/510
17GA/17GS/17PS/17EA	770/735/865/680
20G/21PS/14ES	1,200/1,615/269
PT770P/810P	900/1870
❖MGC	
Non-interlaced 14" Monitor 0.28	220
Non-interlaced 15" Monitor 0.28	295
Non-int. 15" .28dp w/Digital Control	315
Non-interlaced 17" Monitor 0.28	575
Non-interlaced 17" Monitor 0.26	595

MULTIMEDIA

❖CREATIVE LABS	
SoundBlaster Basic 2.0	50
SoundBlaster 16 Vibra OEM	79
SoundBlaster 16 Bit SCSI-II OEM	110
SoundBlaster AWE 32 OEM/Orig.	140/220
♦MITSUMI 4XI CD ROM IDE	99
♦TEAC 6XI CD ROM IDE	165
♦CREATIVE LABS 6XI CD ROM IDE	159
♦TOSHIBA 5402 EIDE/ 3701 6xi SCSI	105/310
♦SONY 4xi IDE/ SCSI	103/155
♦NEC 6xi SCSI	305
♦NEC 4xi IDE	110
4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 Microsoft Home software + Speakers	250
♦ 6xi Multimedia Kit: Creative Labs 6xi EIDE + Soundblaster 16 Microsoft Home software + Speakers	290
♦ SCSI 6xi Multimedia Kit: Nec 6xi + Soundblaster 16 SCSI-II Microsoft Home software + Speakers	460

KEYBOARDS

Mitsumi 104-Win '95 Key	$18
Maxiswitch/Keytronics/Win '95 key	26/29/33
Focus 2001/7000/8000/9000	35/47/35/50
Omnikey 101/Microsoft Natural Orig./OEM	85/65

VERY AFFORDABLE PENTIUMS

* Intel Triton Zappa PCI MB w/256K (Latest version 809)
* Pentium P5 CPU
* IDE PCI Controller
  - w/1p,2s.1g & 16550 chip
* 8MB - 70ns RAM (72 pin SIMM)
* 1.44 Teac FD (3.5")
* Spider Tarantula Lite w/ 1M
  - 64 Bit Accelerator
  - 16.7 Million Colors
  - Expandable to 2MB
* 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
* 540 MB Hard Drive
* Medium tower Case w/ 230W
* Mitsumi 104 w/Win '95key KB
* MS Compat. Mouse w/ Pad
* Free CPU Fan

Pentium 133(Intel)	$1410
Pentium 120 (Intel)	$1240
Pentium 100(Intel)	$1170
Pentium 90 (Intel)	$1145
Pentium 75 (Intel)	$1065

UPGRADE OPTIONS:

Endeavor Pipeline 256K	Add $40
Endeavor Pipeline 512K	Add $150
Atlantis Pipeline 256K	Add $70
Atlantis Pipeline 512K	Add $180
EDO RAM	Add $10

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*486/256K PCI Motherboard
*486DX4-133 AMD CPU
*8MB RAM
*850MB IDE Hard Drive
*SPiDER Lynx 64 w/ 1MB(upgr.2MB)
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*1.44 Teac FD
*Mitsumi 104 w/95 key-keyboard
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*Mini Tower Case w/230w
*4XI CD-Rom
*Soundblaster Vibra 16 sound card
*Speakers
*Microsoft Encarta 96
*Microsoft Money
*Microsoft Works

486DX4-133(AMD) $1120

HARDDRIVES

❖CONNER	
850mb/12ms (EIDE)	188
1.0GB/14MS (EIDE)	212
1.2GB/15ms (EIDE)	223
1.0GB/10ms (SCSI)	255
❖MAXTOR	
850 mb/10ms (EIDE)	192
1.2GB/12ms (EIDE)	243
1.6GB/12ms (EIDE)	275
❖QUANTUM	
540mb/14ms (IDE)	168
850mb/14ms (EIDE)	188
1.0GB/10ms (SCSI)	254
1.2GB/11ms (EIDE	230
❖WESTERN DIGITAL	
850mb/10ms (EIDE)	193
1.0 GB/ 11ms (EIDE)	220
1.2GB/ 10ms (EIDE)	243
1.6 GB/ 10ms (EIDE)	286

MISCELLANEOUS

♦Microsoft mouse serial/bus	26/53
♦Logitech Mouseman serial/Bus (4000dpi)	27/48
❖COLORADO	
DJ-35C350MB//DJ-501.4GB	120/220
T-1000 800 MB(Tape incl.)	175
Trakker 250MB/Trakker 700MB	230/315
♦Baby AT/Mini Tower case w/230W PS	40
♦Medium Tower case w/230W PS	60
♦Full Tower case w/250W PS	80
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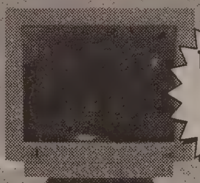
- High contrast, non glare, dark tinted CRT provides sharp, clear images
- 1280x1024 max resolution supports VGA, 8514/A, super VGA and XGA
- Tilt and swivel base allows comfortable viewing from all angles



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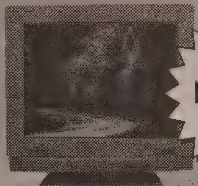

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- High contrast, non glare, dark tinted CRT provides sharp, clear images
- 1280x1024 max resolution supports VGA, 8514/A, super VGA and XGA
- Tilt and swivel base allows comfortable viewing from all angles

MOTHERBOARDS WITH CPU	
PCI Intel Triton ENDEAVOR w/256K P/B w/Pentium 100MHz CPU	$495
PCI Intel Triton ZAPPA 256K Cache	$189
PCI Intel Triton 256K Pipeline Burst Cache w/Pentium® 100MHz CPU	$369
PCI Intel Triton 256K Cache	$130
PCI Intel Triton 256K Cache w/100MHz CPU	$349
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w/Intel DX4-100MHz	$179
w/AMD 120MHz	$189
Intel Pentium®-75MHz CPU	$135
Intel Pentium®-100MHz CPU	$225
Intel Pentium®-133MHz CPU	$345
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MODEMS	
US Robotics Ext. 28.800	$245
US Robotics Int. 28.800 Plug n Play	$195
Maxtech Int 14,400 w/Voice	$50
Rockwell (Monterey) 28.800	$129
Cardinal 28.800 w/VoiceMail	$175

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EDO 4MB 1x32-70ns	$115
EDO 8MB 2x32-60ns	$225
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Diamond Stealth 64 Video 3200 PCI 2MB VRAM	$239
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VideoLogic PCI Movie 2MB VRAM	$119
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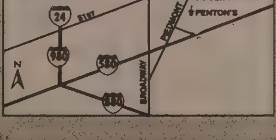

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• 80486-2-80 MHz	48
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1x9-80 3 Chip	37
1x9-80/70/60 9 Chip	39/40/41
1x9-10	34
4x9-70	138
4x9-80	135
4x9-60	140

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1x8-100 8 Chip	$34
1x8-80 2 Chip	36
1x8-70 2 Chip	38
1x8-80/70 8 Chip	35
2x8-80/70	89
4x8-80/70	136/138
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DRAMS

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256x1-120	2.00
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1MBx1-70	5.99
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32Kx8-15/12	7.00
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64x4-15	5.50
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387SL Intel Tube	49
387SX-26/20/33	49
387SX-25 Cyrix	39
387SX-33 ULSI	34
387DX-20 Intel Tube	36
387DX-25 Intel Tube	35
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Price includes Memory, Board & Installation Instructions

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4029 (All Model) 4 MB	195

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HP 4/4M 4/8MB	180/325
HP IIP,IIP+,III,IIID,IIIP 1/2/3/4	78/119/156/210
IIsi 4/8 MB	179/345
DeskJet 500/500c 550C 256K	85
Design Jet Plotter 4 MB	185

PANASONIC LASER

KXP4410/KXP4430 1/2/3/4 MB	$78/119/150/210
KXP4420/4450/4451 1/2/3/4 MB	78/119/150/218
KXP4450 1 MB	88
KXP4455 2 MB	109

OKI LASER

OL400 1/2 MB Board	$78/125
OL800/820 2/4 MB Board	125/188
OL810 2/3/4 MB Board	139/155/209

QMS LASER

PS 410 2/3/4 MB	$129/158/188
PS 860, 1700 1/4/8 MB	89/133/179
PS 815, 825, 815MR, 2/4/6	168/232/295

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JX-9500/9700 1/1.5/2.5/4	110/135/175/245

OTHERS

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Brother HL-4 2/3/4 MB	145/182/235
Brother HL-8E V 1/2 MB	99/139
Compaq Pagemarq 15 & 20 1/4/8	79/139/266
Kyocera F800, F800Am F800T 2/4	95/137
NEC Silentwriter 90/290	109/124
NEC Silentwriter 95 2 MB	109
TI Microlaser 1 MB	98
Packard Bell Video Memory 1 MB	39

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P100 (PCI)	$365
P90 (PCI)	255
P90 (LOCAL BUS VESA)	210
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• RAMpAT 16 Bit	$85
• RAMpAT Plus	$125
• SIMMply RAM for PS/1 16 Bit	149
• SIMMply RAM	159

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1.2 MB	49
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Model		P/N	
LTE 286	1 MB	117081-001	$89
	2 MB	117081-002	125
	4 MB	117081-003	219
SLT 286	1/4 MB	110237-001	99/259
LTE 386S/20	2 MB	12125-001	129
	4 MB	121125-002	195
Contura Lite 20/25	2 MB	129769-001	125
	4 MB	129769-002	235
	8 MB	129769-003	395
Portable 386	1 MB	107651-001	125
	4 MB	107653-001	310
Portable III2 MB		10-7332-001	125
	EBD	167811-001	225
SLT 386	2 MB	118304-001	145
	4 MB	118305-001	225
Deskpro 386S (E. Board)	4 MB	11364-001	285
	4 MB	112534-001	189
Deskpro 386/33L, 486/33L, 50/25	2 MB	115144-001	145
	8 MB	116561-001	375
	32 MB	116568-001	1475
Deskpro 386/20e, 25e (E. Board)	4 MB	113645-001	285
Deskpro 386/20,20e,25e	4 MB	113132-001	199
Deskpro 286N, 386N, 386SX/20, 386/25M, 486/33M, 486S/25M, 486S/16M	2 MB	118689-001	189
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	8 MB	141742-001	315
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	4 MB	141684-001	189
	8 MB	141685-001	345
Other Models			CALL

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T5100, T3100, T1600	2 MB	139
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T4400SX, SXC, T6400	2/4 MB	135/249
T4500/4600/4800, T1900/1910, T1950/C 3.3 Volts	8/16 MB	395/769
T3300SL	2/4/6 MB	135/210/299
T3100	2 MB	135
T2200SX, SXE, T1000LE	2/4/8MB	135/210/379
T1800 Satelite	2/4/8 MB	135/210/379
T2100 Series	4/8 MB	188/335
	16/24 MB	649/1052

CALL FOR OTHER MODELS

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Prospeed 386	2/4 MB	189/475
Prospeed SX/20	1/4 MB	125/249
Powermate 386/25S	2/8MB	139/369
Powermate 486/25E, 486/33I	2/8 MB	135/365
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Other Models		CALL

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Compaq Contura Lite 20/25	2/4/8 MB	149/266/399
Chicony 386SX	4 MB	198
Chicony 386SL/25	2/4 MB	149/229
DECPC 320P	2/4/6 MB	195/269/389
DELL 320N & 212N	1/2 MB	99/125
DELL 320N, NC	2 MB	139
DELL 325N, NC	2 MB	179
DELL NL25, NL20	2 MB	179
Epson NBS3	1/4 MB	98/225
Everex Tempo LX	2 MB	135
HP 95LX	1/2 MB	159/279
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IBM N51SX & SLC	1/4/8 MB	99/165/362
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MAC PB 100	2/4/6 MB	89/179/239
Magnavox Metalis 386SX	4 MB	199
NEC Ultralite 286F	1/4 MB	99/199
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Panasonic CF 170/270/370	1/2 MB	85/129
Sharp PC 8501	2 MB	135
Sharp 678/6881	2 MB	129
Sampo NB SX/26, SX/25	2/4 MB	145/225
TI Travelmate 2000	1 MB	129
TI Travelmate 3000	2 MB	135
TI Travelmate 4000	4 MB	229
Zenith Turbosport 386 E	1/4 MB	125/325
Zenith Supersport SX	2 MB	189
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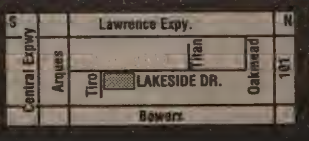

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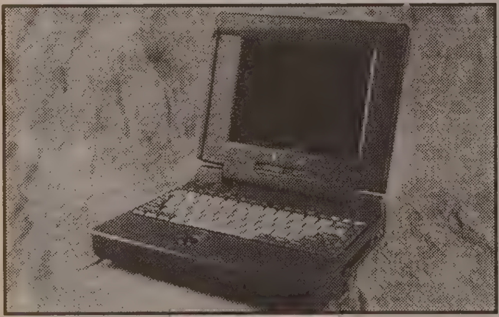

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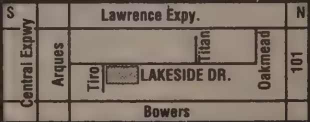

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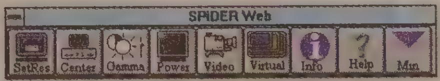
**Software MPEG: The Tarantula 64 Mk. II accelerates digital video by off-loading the CPU intensive task of scaling and color space conversion. Pentium or equivalent performance CPU is recommended for decoding task SPiDER hardware MPEG decoder is recommended for slower system.*



SPiDER Web: FEATURES

- Resolution, Color, Refresh Rate Change
- Refresh Rate and Resolution on-the-fly
- Virtual Screen: Pans and Zooms
- Monitor Centering and Adjustment
- Refresh Rate Check
- Gamma Correction Utility
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- Video: AVI playback

SPECIFICATION:

MultiMedia Accelerator: S3 Vision968

Bus: PCI & VLB

Display Memory: 2MB exp 4MB VRAM

Video Connector: DB-15

Video Signal: Analog

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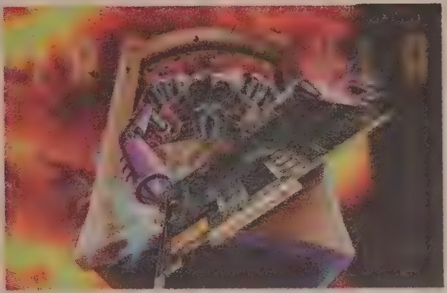
CMP Windows Magazine Dec. 1994

The Tarantula 64 "is fast and dependable."
OS/2 Magazine, April 1995

TARANTULA 64



End-users who wish to upgrade the original Tarantula 64 to the new Mark II, please contact SPiDER Graphics customer services.

Resolution	Colors	Memory	Selectable Refresh Rate
640x480	256-16M	2MB	60,72,75,90
800x600	256-16M	2MB	60,72,75,90,87i
1024x768	256-64K	2MB	60,70,75,80,87i
1152x864	256-64K	2MB	60,70
1280X1024	256	2MB	60,72,75,87i
1600X1200	256	2MB	60
1024X768	16M	4MB	60,70,75,80,87i
1152x864	16M	4MB	60,70
1280X1024	32K-64K	4MB	60,72,75,87i
1600x1200	32K-64K	4MB	60

Available colors: 256,32K,64K,16M, all non-interlaced, except i=interlaced. Graphics modes support vaires between applications and operation systems.

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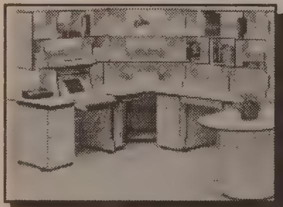

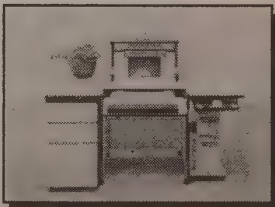

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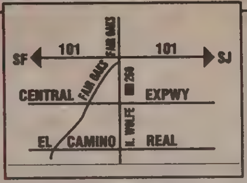

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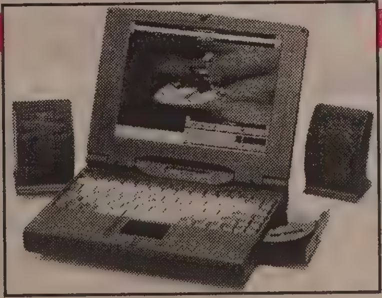

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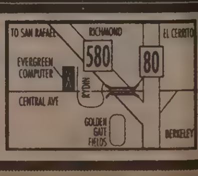

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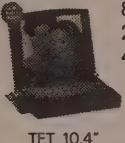

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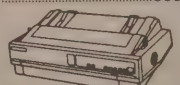

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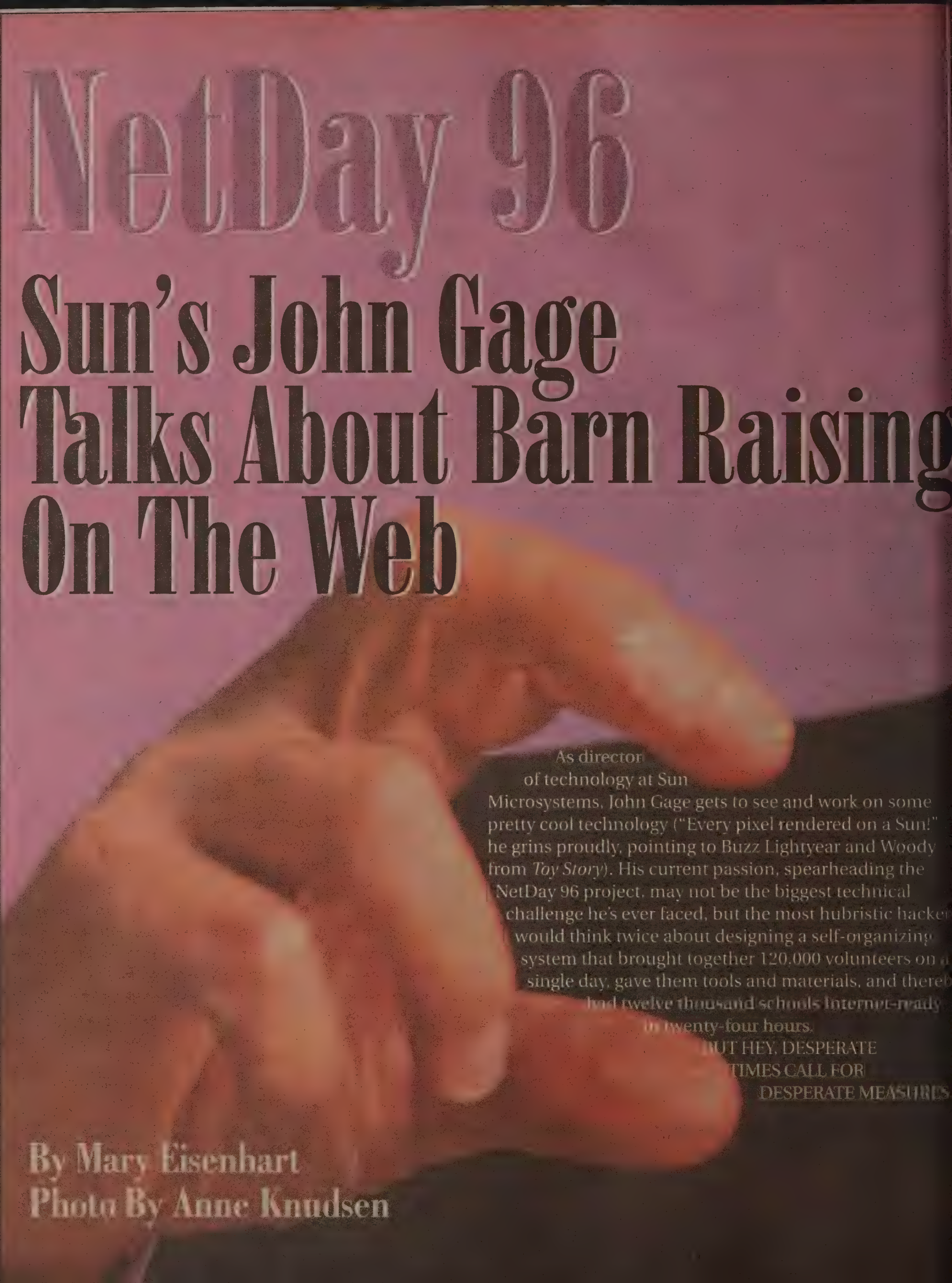
NetDay 96

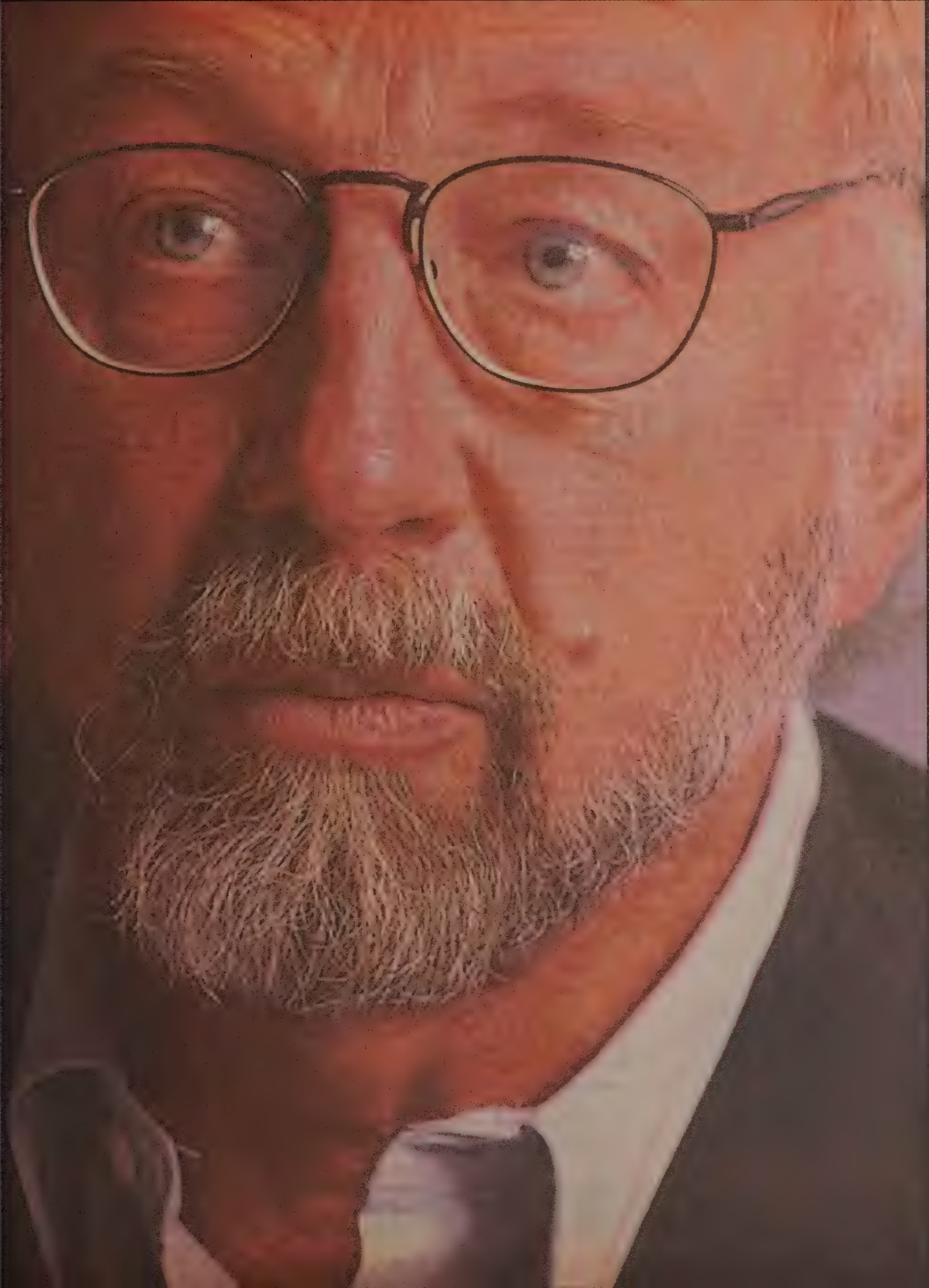
Sun's John Gage Talks About Barn Raising On The Web



As director of technology at Sun Microsystems, John Gage gets to see and work on some pretty cool technology ("Every pixel rendered on a Sun!" he grins proudly, pointing to Buzz Lightyear and Woody from *Toy Story*). His current passion, spearheading the NetDay 96 project, may not be the biggest technical challenge he's ever faced, but the most hubristic hacker would think twice about designing a self-organizing system that brought together 120,000 volunteers on a single day, gave them tools and materials, and thereb had twelve thousand schools Internet-ready in twenty-four hours.

BUT HEY, DESPERATE TIMES CALL FOR DESPERATE MEASURES.

By Mary Eisenhart
Photo By Anne Knudsen



> **“We’re providing a mechanism, using the Web, for the entire high-technology community in California to join on one day and wire the schools.”**
>
> **—John Gage**

“The Internet has no national boundaries. Information has no national boundaries. The service industries, the financial industry for example; the banks; the insurance companies; the stock traders; the people that live on information, they can be anywhere in the world,” says Gage. “The competition for jobs to do those sorts of things is worldwide, and California can no longer afford to be the forty-ninth state out of fifty in child exposure to technology in the schools.”

Gage has been working a lot lately on NetDay 96, an extraordinarily broad-based response to this problem. Its goal is to use the resources of the Web to wire the schools, combining this effort with other industry initiatives to get twelve thousand of California’s public and private K-12 schools onto the Internet on March 9. Endorsed by civic groups, teacher’s unions, classified employees, administrators, PTAs, and local businesses, NetDay is perceived as just the beginning of an ongoing effort, one that provides necessary tools for the community’s future in the digital age.

“The fundamental test for NetDay is, do we get the most remote, least connected school wired?” explains Gage. “Ubiquity is our test. Ubiquity, and focusing on the schools that have the least amount of resources to do anything.

“There are separate projects that pick one or two schools and have put $300–500,000 into each school; that involves buying computers, buying routers, buying all that equipment. We’re not doing that. We’re just doing the kick-start barn raising to enable every school in the state to have five classrooms and a library and a lab wired to some central point.

“At that point, then, California schools can take advantage of PacTel’s offer for ISDN access, and change the number that are using it from three hundred, which is what it is today, to twelve thousand. We can do that in a swoop”.

So tell us about NetDay.

The overarching goal of NetDay 96 is to prepare every school in California to be put on the Internet.

The first part is, do the interior wiring in the school. That’s the hard part; that’s what this NetDay project is designed to do. And only do five classrooms and a library or a computer lab.

Not do every classroom, because when you go into meetings with parents and school employees and teachers and students, and say, “We’re going to do thirty rooms in a day,” that’s a big project. Five rooms and a library and computer lab, is a two- to ten- person job. Two good people can do it; one person that’s technically competent and three handypeople and three helpers can do it, and that’s what we’re searching for. Ten people per school, twelve thousand schools, 120,000 people.

This project was an outgrowth of a long, boring meeting in Washington of the Federal Networking Committee, that talks about where the federal government goes in networking. Part of that in this particular meeting in April was a presentation about the lack of funding to do any wiring in any schools. It struck me at that moment—we had just finished at Sun a four - thousand-person building, at the foot of the Dumbarton Bridge, and all we did for that building was pull Category 5 wire.

NetDay is an attempt to use the power of the Web for the first time to organize 120,000 people to go to California schools on one day and pull Category 5 wire, so we can give them the same kind of interior networking that all the businesses have and that we all use every day.

What’s Category 5 wire?

Category 5 wire is phone wire. If you look at the back of any Mac or PC or workstation, plugged into the back of them would be an RJ45 plug going into the Ethernet board. It’s just a wide phone plug, and then the phone plug connects to a telephone wire, but it’s special wire, high-fidelity phone wire called Category 5.

What you have in your house and I have in my house is Category 3, or even worse—just skinny little pairs of copper wire. If you engineer it very carefully and twist each pair of wires precisely the right amount of twists, some more twisted, some less twisted, that causes all the electric fields of the signal going down the line to counteract each other and lets the signals go cleanly much faster and much farther. That’s Category 5 wire, 10 cents a foot at Fry’s or Graybar’s.

The remarkable conjunction of a very cheap wire that you can put things on—very high capacity, lots of bandwidth—and the arrival of the Web—publishing at no cost—struck me as a wonderful way to take the schools forward in sharing all the curricular materials, all the projects teachers have done, that they can’t at the moment share with anyone else. Put them all on the net.

How are you planning to do this?

We use the amazing power of the Web to organize everyone in a totally decentralized way.

Don’t call me when you want to work for a school. Find the Web page—I’ve built twelve thousand Web pages for the twelve thousand schools. Find the Web page for the school you want to volunteer for, and volunteer. That’s all there is to it—your name, your email address, and any comments you want to make about the school now appear attached to the school home page. Which allows the school to contact you and organize what happens on the day.

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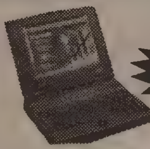

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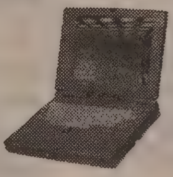

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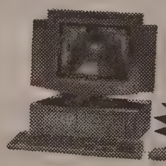

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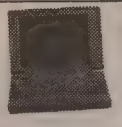

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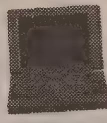

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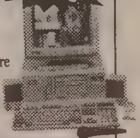

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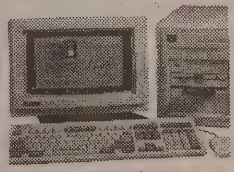

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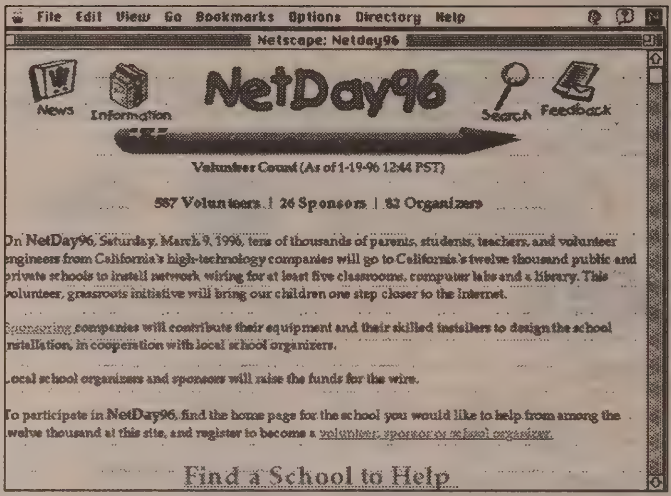


Volunteer Count (As of 1-19-96 12:44 PST)

587 Volunteers | 26 Sponsors | 82 Organizers

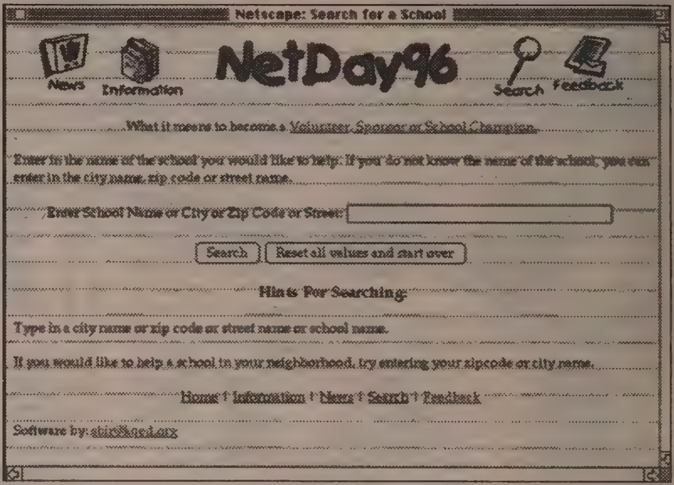
On **NetDay96**, Saturday, March 9, 1996, tens of thousands of parents, students, teachers, and volunteer engineers from California's high-technology companies will go to California's twelve thousand public and private schools to install network wiring for at least five classrooms, computer labs and a library. This volunteer, grassroots initiative will bring our children one step closer to the Internet.

Sponsoring companies will contribute their equipment and their skilled installers to design the school installation, in cooperation with local school organizers.

Local school organizers and sponsors will raise the funds for the wire.

To participate in **NetDay96**, find the home page for the school you would like to help from among the twelve thousand at this site, and register to become a volunteer, sponsor or school organizer.

Find a School to Help


Netscape: Search for a School
News
Information
NetDay96
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What it means to become a Volunteer, Sponsor or School Champion.

Enter in the name of the school you would like to help. If you do not know the name of the school, you can enter in the city name, zip code or street name.

Enter School Name or City or Zip Code or Street:

Hints For Searching:

Type in a city name or zip code or street name or school name.

If you would like to help a school in your neighborhood, try entering your zipcode or city name.

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Software by: [illegible]

The companies that are the supporters are going to provide testing equipment and trained people. The school itself and the group of volunteers are going to raise the money for the wire. It could be as much as $1000, but it's more in the $500 range.

The NetDay kit will be 2–3000 feet of Category 5 wire, and the connectors, and the patch panels, and all it takes to wire five classrooms and a computer lab and a library. That box will arrive at each school during February as sponsors step forward to pull the money together for this.

Now many companies are buying these kits for the schools, so I'll then put their name on the home page as a sponsoring company.

What we're discovering is it's not so much the IBMs and the Lockheeds and the Bank of America and PacTel or Sun or Apple, it's the small contractors that do local area networking up and down the state, and there are thousands of them. So a company of three or four people will say, "We do wiring, that's our business; every day we wire an insurance company or a hospital or something. So we'll adopt a school or two schools, and we'll be sure they're wired appropriately, and tested at the end of the day."

NetDay's a mechanism, I think the first ever, to use the Web as an organizing and accounting tool to show what the state of the schools is. We now have a Web page for each school, and anyone at the school can annotate it with information about the school. Suddenly this turns into something that's never existed before—a method to see what is the state of affairs at each school.

We're bringing up ETAK maps that show meter-accurate placement of things on the streets of California. You'll be able to bring up the map of California, see twelve thousand dots, see what color they are, and by that tell whether they are on the net or not. Blue is "on the net"; green is "possesses some interior networking"; orange is "has some Apple IIe's and something"; and red is "disaster!"

When the maps come up, you look at the state and there's twelve thousand disaster zones. The next day, a number of them have turned blue, or green. Each day, as schools add information, we have a richer and richer way of seeing what's going on.

That's the organizing tool. Because then any parent can go to their school board meeting with their Mac or PC, get a phone line, plug in, get on the net, and show that school district precisely the state of affairs in every school administered by that district, in a way that no one in any school district can do right now.

We have data about the number of students; the schools insert what their networking status is, the number of teachers, the number of classrooms. These are important things for the citizens to know about their school system, which at the moment you can't find out easily. Suddenly it's freely available on the net for everyone.

Our barrier at the moment is that most schools have no net access. Enter the next element of this. We announced a fixed date, March 9. That allows you to mobilize a lot of people, and I hope every *MicroTimes* reader is out on March 9 wiring a school, and if they're not, I'll know, because their names are going to be taken... [*laughs*]

MCI has decided to give free network dialup access to every school in the state. So floppies will go out in the next several weeks to every school in the state that give free dialup access. Same thing from Netcom. Same thing from AT&T—they put their start date out in the spring, but we're going to try to move it back into January or February. Sprint is considering doing the same thing. PacTel is considering doing the same thing.

So every Internet service provider can aid by giving a free network access line to the school. When the MCI packets arrive, we will have ten thousand schools capable of dialing up the Web pages and annotating their page.

That gives us an ongoing, never-vanishing accounting system for the schools, which leads to a new way for citizen involvement.

At the school end, who is maintaining the pages?

They're not.

We put them all up on the machine we have at The WELL, the *netday96.com* site. On that machine, sitting in Sausalito with T3 access to the net so everyone can get to it, are twelve thousand home pages for all the schools.

There are also one thousand home pages for every large company in the state. On that page we put the name of the person at the company responsible for responding to requests for assistance, we put the phone number and the email address. We put the state of their participation—if they have so many employees in the state of California, what percentage have volunteered for NetDay?

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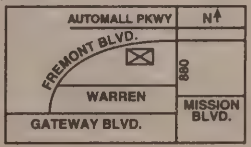

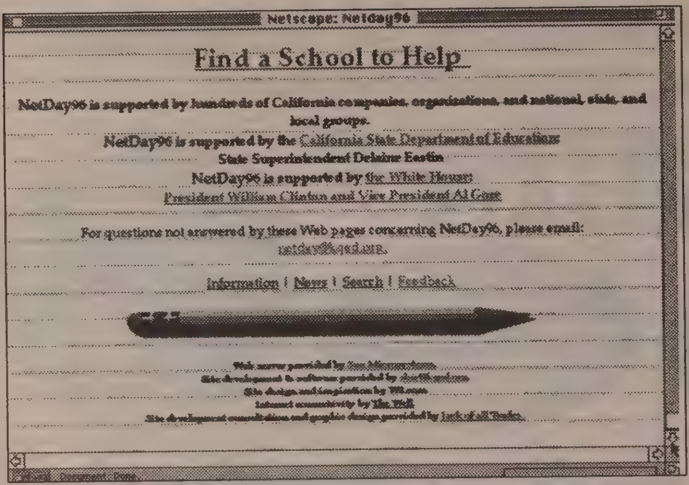

Netscape: Netday96

Find a School to Help

NetDay96 is supported by hundreds of California companies, organizations, and national, state, and local groups.

NetDay96 is supported by the California State Department of Education:

State Superintendent Delaine Eastin

NetDay96 is supported by the White House:

President William Clinton and Vice President Al Gore

For questions not answered by these Web pages concerning NetDay96, please email:

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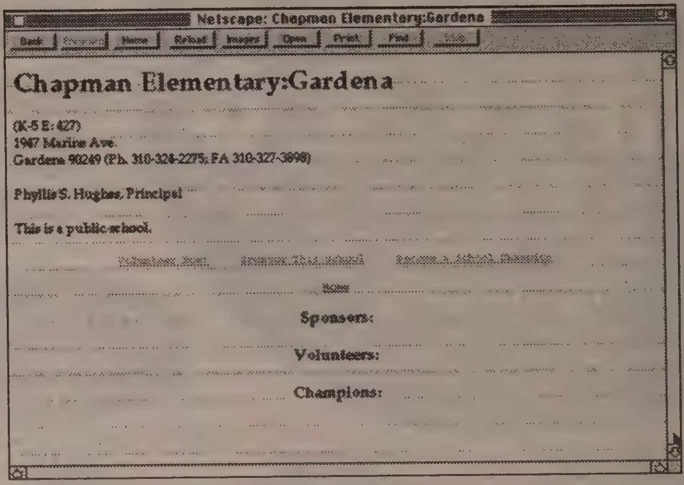

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Phyllis S. Hughes, Principal

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At the moment all needles are on zero. When we began the full publicity for this by putting announcements on Netscape's pages and Yahoo's pages and the other heavily hit pages, the needle started to rise. At any moment you can go into the volunteer database, enter "Sun" or "IBM" or "Apple" or "Pacific Telesis" and you'd get a list of all the employees from those companies that have volunteered. Count them, divide that by the number of employees in the state, and you get the percentage participation.

And that way we get all the companies to race to see if they can get 10-20-30-40-50% participation by all the employees.

What kind of response have you had from the schools?

Delaine Easton, the state superintendent of education, has fully endorsed this and is holding a series of eight county meetings in January and February in each part of the state, bringing in all school disricts, all county superintendents of education, to learn about how NetDay works and what they need to do. The timetables, the checklists, the things you need at the school.

What we've done with NetDay 96 is a catalyst. I *will* wire schools on the day, but the important thing is that every school have a mechanism for getting the volunteers to the school with the right equipment at the right time, putting it in properly and testing at the end. That's a local decentralized organizational responsibility.

You call twenty people that are parents and teachers, either the PTA or the CSEA, the classified employees. You get every member of that school's community together to come up to the school that morning and work. They have to commit for the day to go pull wire, and have a party. Someone brings coffee and donuts.

It's a barn raising.

That's precisely what this is. It's a one-day barn raising to get California schools on the net. And since we're not the California Department of Education—we're just interested corporate and educational citizens here, we're parents, essentially, doing this—we don't have to follow anyone's definition of a school.

Our rough working definition of a school is ten kids or more in a room for some period of time. That's a school.

So you're wiring homeschools too?

We wanted to avoid getting to the two- or three-person homeschools, just because there's too many. We have many of the Muslim schools; we don't have as many of the Chinese schools and the Hebrew schools. We're doing this on Saturday, too, so we have a problem with the Orthodox schools, so we'll do it on Sunday for the Orthodox schools.

The goal is to get a Web page up for each of these schools that allows people to volunteer for these schools, and then becomes self-organizing. This is a self-organizing, organic, distributed, no-central-office, no committees, no meetings, no staff, no nothing. Just do it on the net.

So say I'm out at some little school in the desert—where am I going to get the resources for this?

How many people are in this school?

Twenty people!

Twenty people! Then there's forty parents, more or less, and ten staff at the school. All we need are five people for this school—with twenty people they've probably only got one room.

So in a way we've already accomplished our objective, because of the MCI/AT&T/Netcom dialup access, they just need a computer and a modem. The connection's free—the MCI deal is that for one year you get free dialup access, 28.8 modem dialup access from every school in the state.

Suddenly you're on the net. That's the point for those schools that don't have knowledge of what's on the net to explore. The first thing they will do is go to the assembled richness of curricular materials, developed in Tennessee, in Florida, in West Virginia, in Singapore, in Malaysia. Worldwide there are materials in mathematics and science and physics and all the classroom activities that are real.

Some teachers, as you know, are well ahead of the curve. But there are plenty of people out there in the local communities still wondering what good all this Internet stuff is going to do their kids?

If I had to persuade someone of the value of putting schools on the net, I'd take them to two places.

One would be to Ravenswood School District in Menlo Park, in an area that's quite dangerous. A violent area, East Palo Alto/Menlo Park. Bullets fly at night. There, a group of parents and teachers, together with Cisco, wired ten of the schools. The testimony from the teachers is that absenteeism dropped off enormously. Kids stayed in school. They come to school early because they have access to the real world on the net and can participate in communities around the world that they didn't know existed.

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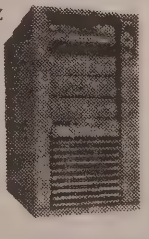

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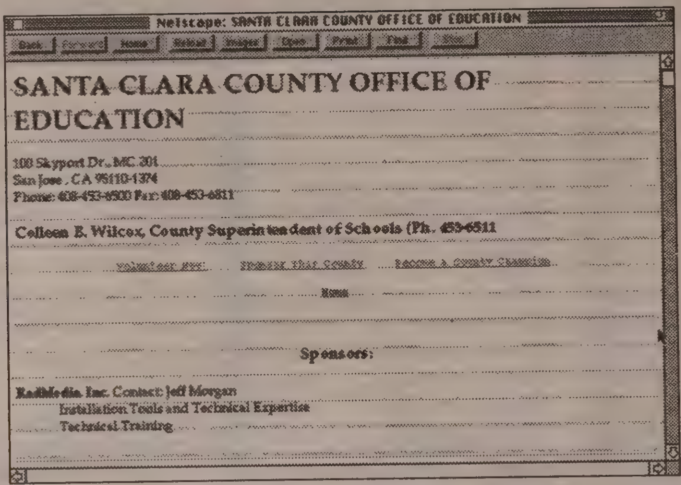

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It was just instant. Suddenly you saw things.

The other thing I'd show them would be a Web page, the Web page for Woodside Elementary School in Minnesota. A student at the graduate school of education at the University of Minnesota went to the moderately rural school and said, "Let's put your kids up on the net!"

So he built a Web page for each child, just took an Apple digital photograph or scanned in 35mm. He created a Web page for Woodside School, took a picture of the school, and every child's home page appeared on the net. Every child had an email address.

When the children had to do the inevitable written project, one group of kids did dinosaurs, one group of kids did meat-eating dinosaurs (that was the boys), another group did the Shoemaker-Levy comet. Now if you look at the normal list that every parent has done with their kids in the sixth-grade Big Report, Shoemaker-Levy Comet's not a big winner here.

It turns out this was long before the comet hit Jupiter. In the scientific community, NASA Ames and the European space agencies were generating images of this, discussing points of impact, discussing how many pieces of the comet there were.

This group of eleven-year-old kids in a remote rural town in Minnesota incorporated real-time imagery from Hubble and the European space agency in their sixth-grade report.

There's a wonderful note in the report: "Our scientist says that the impact will be large" and goes on about how large he thinks the impact will be. "We think he's wrong." And it goes on to correct the chair of astrophysics at Caltech about how big the impact will be! Or at least argue about it.

These are eleven-year-olds who are part of a scientific community. It's real science. This is not play. This is not a four-year-delayed textbook. This is real science.

They're working on the same information as the big guys.

They're working on the same information. So an eleven-year-old has just as much chance of detecting a new planet or a new comet or a new star in a galaxy, as anybody in the scientific community. They're part of the scientific community. From the small rural town in the desert, in your example.

So those examples, plus the testimonials from teacher after teacher in school district after school district, suggest that allowing a child to have some control of some parts of what they learn, and be able to explore the exploding world of the Internet, is immensely valuable. And for them it's valuable for curriculum.

But what about all that pornography on the net we've been hearing so much about?

Pornography is a problem, and it's identical to the problem every parent and every school faces when the child walks past a magazine display rack.

In magazine racks are girlie and boy magazines, and the child has to decide, based on what they've learned from their parents and teachers, what they're going to do. This is precisely the same. The Internet's a large magazine rack. It places a responsibility on the teacher to guide the students. There's nothing new in this at all—the Internet brings with it the same responsibility to the teachers that they've always had, guiding the children in what they read. The same for parents, it's the same set of responsibilities.

I think this changes the role of the teacher back to what it should be, as a guide, as someone that aids a student to learn for themselves. Change it from this mechanistic mode we've goten into where all knowledge comes from the teacher and you'd better learn it or else.

Open head, pour in knowledge...

Open head, pour in, close. And only pour in that which is on the test later.

What do you see coming of the current congressional campaign to essentially make the whole Internet suitable for K-12 audiences?

Oh, I think the current congressional campaign is based in fallacy and misunderstanding. Occasionally I get worked up enough about this—I do as everyone else does, I email and write letters and call people and say, "Please don't make silly mistakes."

But in this era, I think that this is self-correcting. The movement of business and retail transaction and banking all onto the net is unstoppable. Free net access for everyone is, I think, an element of citizenship that will be a requisite. That's why doing this project that begins in California and is instantly exportable to every other state is a very important one.

I think it's very important for any parent who's attempting to decide whether or not their child should be involved in the Internet, or high technology in general, to realize that jobs are moving to service jobs, which require the ability to do everything that schools are supposed to teach—read, write, think, and communicate. The Internet's the mechanism for communication; it's critical for a student to master.

A student who leaves a high school can get a job in a variety of businesses knowing nothing about reading, writing, or how to communicate. But they're not going to be paid very well.

Anyone who would like to get a job that actually pays well needs to read, write, and communicate well, and knowledge of how to do that on the Internet is, I think, critical, particularly in California.

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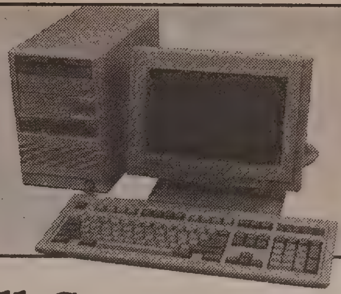

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high-technology industries. Those jobs are going to people outside California, because of the presence of the network. Sun Microsystems could hire, if we wanted, a thousand programmers tomorrow in Bangladesh; or Bangalore, the center for the India Institute of Technology grads, who are wonderful programmers—but they're in India. We are, as a matter of fact, going to have a small research facility in Pakistan, just because the net allows you to be anywhere. So that's a competitive market.

The competition for jobs to do those sorts of things is worldwide, and California can no longer afford to be the forty-ninth state out of fifty in child exposure to technology in the schools.

It's a tragedy that we have wasted a lot of money bringing technology into the schools, because the teachers have not had any mechanism to learn how to use a computer in the classroom. They've been placed in a very difficult position, with this sudden arrival of the technology committee's great idea, which is, let's have a computer in every classroom—

Without bringing the teacher into the process.

Without bringing the teacher into the process. The teacher is already dealing with 150 children during the day, and it's just another thing the teacher has to deal with. They have no time to do it, no resources to do it, and now someone hands them a big box that's very difficult to open and put together to turn into a computer, and asks them to be creative using this.

Completely fallacious. People wasted every school's money, putting these terrible little machines out into the classrooms before there was an adequate structure to support them.

But now the structure's there and it's called the Internet. Each of those machines that's either sitting in a dusty box or sitting unused in a classroom, when it's connected to the network, becomes a window into materials developed in every school in the world, and to the world of real work and real creation that's out there on the Internet.

Suddenly it transforms a boat anchor into a window into the world.

Okay, let's look at those boat anchors. There are a lot of XT-class machines and Apple IIe's sitting out there. For net purposes, those are essentially useless, right?

Yes.

So what's a reasonable minimum hardware and software setup?

A 386 can limp through it, but they're generally difficult to configure for this. The 486 machines and up are just fine. A 386 machine can be configured, and every ISP in the state of California will tell you how to set up a Windows 3.1 machine and send you disks for it.

The first intelligent thing that Microsoft has done about the network was to bring out, in Windows 95 and in NT, full network support. So even though those are huge piles of software, if the machine is capable of running Windows 95, then it's instantly on the net. The software's there; TCP/IP is embedded.

For the older machines and the smaller machines, there is a configuration problem of putting the network software on the machine and getting a network interface card so the machine can link.

I think probably for those old machines putting the minimal amount of software on it lets them run a browser, preferably a graphics browser, but it could be Lynx or a text browser. Just putting a browser up on a machine and getting even dialup access is a very useful point for the schools. Suddenly the world of free software, and free curricular software, is there.

Our NetDay project focuses on the first barrier for all schools being on the network, and that's the interior wiring. Getting the plumbing in. That's all it is. When we finish with NetDay 96, on the afternoon of March 9, in twelve thousand schools, there'll be a little party, and those twelve thousand schools will be able to come up, using at least the dialup access to the net, and see their home page, and see a presence that's visible worldwide for their school.

Those that have gone beyond NetDay, and arranged the room of computers, the ones they have already, loaded with a browser and TCP/IP networking software, which is built into many systems—they will be able to use the interior wiring to link to the outside world.

That's the third part of the problem, and that's the access that Pacific Telesis and Sprint and MCI and other carriers are now providing. ISDN access, which has been promoted by PacTel as a major educational initiative, has very few people taking advantage of it, for several reasons.

The biggest reason is that the box you need to convert from ISDN to 10BaseT Ethernet cost $1100 a year ago. Today it costs $350. Tomorrow it'll cost under $300.

The simple arithmetic of this is that a 28.8 modem, which you can buy today for about $150, gives you about 3000 bytes a second. An ISDN line will give you 6000 bytes; double-ISDN, 2b+D, will give you perhaps 13,000 bytes a second. So a factor of four increase of speed is good, but it's not good if the price for that is ten times higher. So if it's four times faster and four times more expensive, that's interesting; if it's four times faster at the same price, that's very interesting.

California is blessed with a good PUC, that has allowed a low tariff for ISDN, $22 a month.

It's changing, though. The telcos just went before the PUC asking to be allowed to double the rates. Which is nuts.

Right, this is nuts. We've talked a lot to the FCC about how this is particularly bad.

This is another mass movement which members of the *MicroTimes* community should join! It's completely decentralized, there's no central committee...[*laughs*]

This crusade is, send an email to the PUC, asking that there be a tariff for the schools of a penny a year for ISDN access. That's simple. It costs the phone company nothing. That would be fine with them. It's a question, in every state, of the PUC that regulates the rates, the tariffs, for telephone calls and data line access.

If they can be persuaded that every school should have, in the interest of California's economy, free access to the net, then it resolves an enormous problem for the schools.

How are you going to avoid the problem of everybody getting all excited and getting together for a day of great effort, and then going home and forgetting all about it?

This is the magic of the net. This is why it's such a different project from any other project.

continued on page 268

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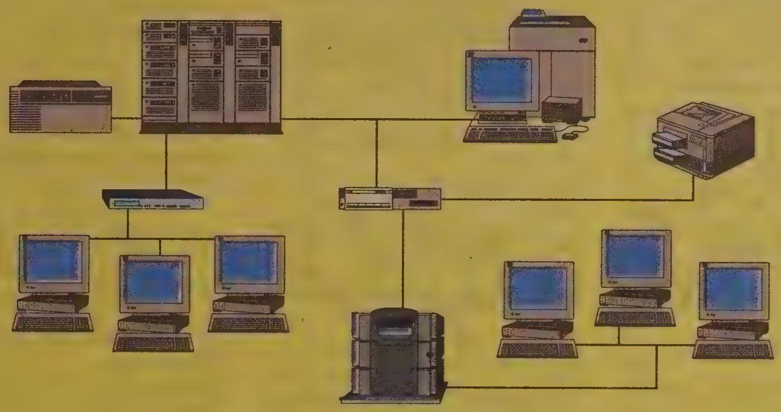

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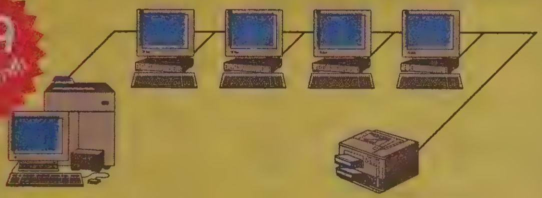

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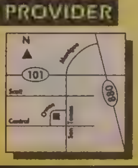

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1542CP/1542CPK(SCSI-2 10MB/s)	$163/$223
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APA1460 Slim PCMCIA SCSI	$164
ASW-EZ SCSI 3.1 for DOS & Windows	$65
T348K Parallel To SCSI	$98
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AS7870 PCI SCSI-2 w/Creative Lab Sound	$204
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BT-930 PCI SCSI-2 w/Win 95 Driver	$129
BT-946C PCI Fast SCSI-2 w. Kit 10MB/s	$174
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Cyrix 486 DX2 -66 5V/3.3V	$25
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CDR-C302 4X SCSI-2, 7 Changer	$345
CDR-511 6X IDE	$195
CDR-512 6X SCSI-2	$285
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LMD-747 4X AT, 600 KB/s	$138
LMD-574 4X EIDE, 600KB/s	$129
LMD-504 4X SCSI-2, 600KB/s	$139
PHILPS	
PCMCIA 2X w/ Card	$270
PLEXTOR	
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CDR-77E 4X IDE, 250ms, 600Kb/s	$99
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CD-56E 6X IDE	$159
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5401B 4.5X SCSI 170ms, 675Kb/s, 256K	$159
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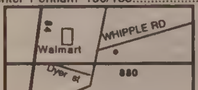

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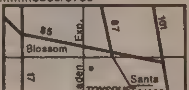

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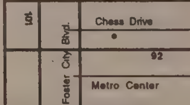

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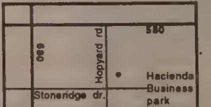

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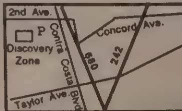

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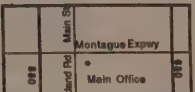

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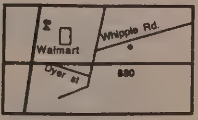

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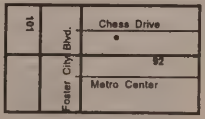

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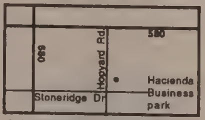

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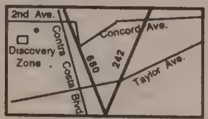

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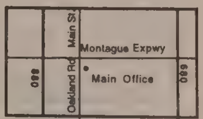

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- High speed IO
- 1 GB EIDE HD
- Diamond Stealth VIDEO w/1MB
- Acer 15" .28dp 1280X1024 Non-In
- Keytronic 101-key Keyboard
- MicroSoft Windows NT 3.5
- Medium Tower Case
- 250-Watt Power Supply
- Microsoft Mouse

$3999

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- Microstar Motherboard
- AMI BIOS 256k Cache
- Intel P-75 CPU w/fan
- 8MB RAM 70ns 72pin
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- 630 MB IDE HD
- 32 Bit PCI Video Card w/1MB
- 15" 1024X768 .28dp SVGA
- Mitsumi 101-key Keyboard
- Mini Tower Case
- 230-Watt Power supply
- Microsoft Window 95
- 3 Button Mouse

$1249

486DX4-133

- MicroStar 3PCI w/PowerSaving
- Pentium Over Drive Ready
- AMD 486DX4-133 CPU w/Fan
- AMI BIOS w/256K Cache
- 8MB RAM 60ns 72pin
- 1.44MB Floppy Drive
- PCI Enhanced IDE Controller
- High Speed I/O(2S 1P)
- 630MB IDE HD
- 32 Bit PCI Video Card w/1MB
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- Mitsumi 101-key Keyboard
- Microsoft DOS 6.22
- 3-Button Mouse
- Mini Tower Case w/230w P.S.

$1029

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- 32 Bit PCI Video Card w/1MB
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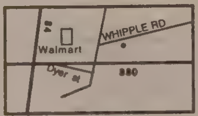

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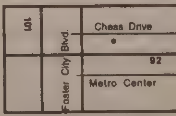

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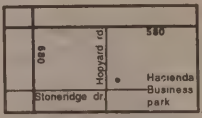

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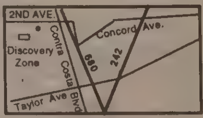

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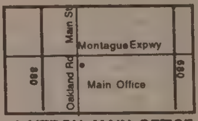

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- •Mini Tower Case w/230w P.S.
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- •Microsoft Window 95

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- •AMD 486DX2-66 CPU w/Fan
- •AMI BIOS 256K Cache
- •3 PCI 4 ISA
- •4 MB RAM 70ns
- •1.44MB Floppy Drive
- •EIDE & HI Speed IO
- •630MB HD
- •PCI SVGA w/1MB Video Card
- •14" 1024x768 .28dp NI SVGA
- •Mitsumi 101 Keyboard
- •Mini Tower Case
- •230-Watt Power Supply
- •3 Buttom Mouse & Pad
- •MS DOS 6.22

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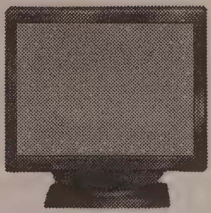

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- •VGA to 1600x1200 Resolution
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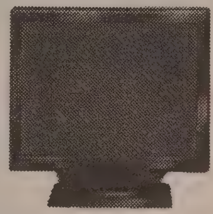

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- •Energy Conservation System
- •VGA to 1600x1200 Resolution
- •Super High Refresh rates:
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- •.30 mm AG Pitch
- •Microprocessor Controlled
- •3-year Warranty

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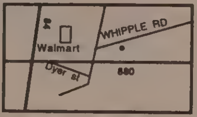

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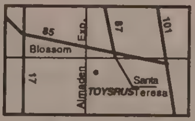

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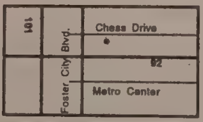

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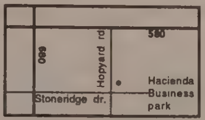

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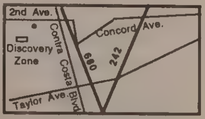

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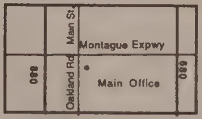

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Plugged In

BY CYNTHIA DYER-BENNET

The holiday party was in full swing.

Plugged In's multimedia community center was packed with partygoers from East Palo Alto, supporters from the surrounding communities, and droves of reporters and photographers. The rooms were decorated with helium-filled balloons and streamers. A red-velvet-clad Santa ho-ho-hoed passersby to come on in. A clown made balloon toys and hats, and a buffet table laden with cheeses, fruit, finger sandwiches, and chips, was provided courtesy of Intel.

The December 8 party was held to celebrate the unveiling of Plugged In's brand new computer lab. The lab is made up of six Pentiums purchased with a $35,000 contribution from Intel, and a full-color, full-sound videoconferencing system donated by Eva Grove, wife of Intel CEO Andy Grove. Wide-eyed preschoolers from East Palo Alto's Creative Montessori Learning Center, had the opportunity to videoconference with Santa Claus. Plugged In's teenage Webmeisters held a videoconference interview with Andy Grove. "How do I get a job at Intel?" asked one curious youth. "How do I get to be CEO?" another asked boldly, drawing chuckles from both Grove and the assembled media at the event.

The Groves' subsequent in-person appearance underscored Intel's commitment to Plugged In and the community of East Palo Alto. East Palo Alto is a pocket of poverty surrounded by wealth. Only a few short blocks separate the spacious mansions and tree-lined boulevards of Palo Alto from the Third World decay of East Palo Alto. Nearly 22% of those under eighteen in East Palo Alto live below the poverty level; in Palo Alto only 3.5% do so. Countywide, the mean value of a home is $473,600; in East Palo Alto it's $165,300. The ethnic breakdown is equally unbalanced: East Palo Alto is 41.5% African American, 36.4% Hispanic, and 12% Caucasian. The county breakdown is 1.6% African American, 7.3% Hispanic, and 81% Caucasian. (The Asian population is similar in both sets of statistics.)

Muki Izora, epa.net project associate and instructor at Plugged In, said this contrast is one of the biggest hurdles Plugged In has to overcome: "Palo Alto has wealthy lawyers and Stanford professors, but you can walk a block and find crack dealers on the corner, people doing drugs and carrying guns. What we're trying to do is bridge that gap in terms of technology to make sure the people of East Palo Alto aren't left behind."

Epa.net is a Plugged In project designed to bring connectivity to East Palo Alto businesses, schools, and the community. "At first, we plan to familiarize the community with the technology by getting them to come to Plugged In," said Izora. "We'll provide access and support here, and expand our drop-in hours."

Phase one of epa.net's goal is focused on building Web pages for community organizations to expose them to cyberspace. Once local community members are familiar with online technologies, they will assess how these technologies benefit their work. Phase two will aim to further these benefits.

Bart Decrem

Plugged In is the brainchild of twenty-nine-year-old Bart Decrem. Born and raised in Belgium, Decrem came to California to study law at Stanford, but soon discovered he was more interested in reaching out to disadvantaged youth than living life in a three-piece suit. He founded Plugged In in 1992 with a $25,000 grant from Echoing Green, a New York-based public service venture capital firm. Plugged In initially operated out of Palo Alto's Boys and Girls Club, using six donated Apple computers. In the summer of 1994, it moved into its current location on University Avenue.

"Basically we outgrew the original site," said Izora. "We got a whole lab of donated computers from Apple, so we needed more space." He noted that the center provides much-needed activities for kids, especially teens, from the surrounding apartment buildings. He pointed out that teens are bussed to schools in other towns, as there are no high schools in East Palo Alto. With no nearby after-school activities, there is little for teens to do. There are no plans for another move, but further expansion is imminent. "We just signed a five-year lease to take over the building next door," Izora said.

Originally geared toward providing computer literacy and net connectivity for youth, Plugged In has now branched out to encompass people of all ages in the community. "We work with five-year-olds and seventy-five-year-olds," said Decrem. "We want to be a technology resource center for everybody. We also work with small-business owners in the area." Decrem is also proud that Plugged In draws in nearly as many females as males. "The gender mix is about fifty-fifty," he said. Approximately two hundred people per week use the computers at Plugged In.

Services

Plugged In offers classes for both adults and children, and there are drop-in hours seven days a week. Computer training is also available to local school teach-

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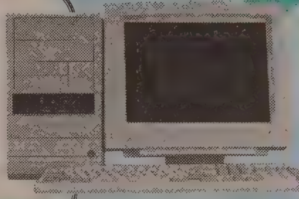

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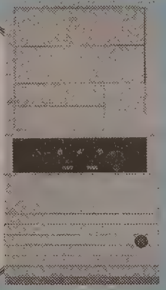

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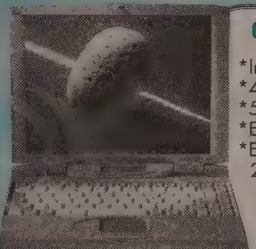

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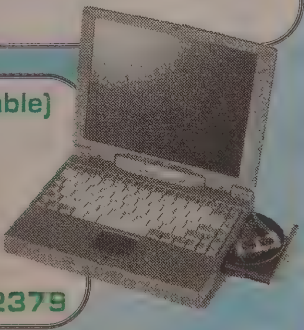

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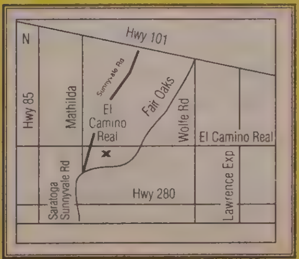

ers. Children in the fourth grade or higher can take courses in HTML; self-paced programs in keyboarding are installed on all computers; and any community member who wants an email account can have one. Emphasis on graphics and text is equal, particularly for teens and kids, who need the visual stimulation of pictures to draw them in, according to Izora. "Once you get them interested through graphics," he said, "you can teach them some basic technical writing skills."

A lack of literacy is one obstacle Plugged In addresses. "We are careful to keep the emphasis at the appropriate level," Izora said. "We don't try to put people in situations where they feel fearful of their inability. We try to keep them at a place where they're comfortable." Spelling and grammar programs are installed on all computers, and English as a Second Language classes on CD-ROM are available twice a week.

The focus for adults is on specific skills to prepare them for the job market: computer literacy, basic word processing, and spreadsheets. Classes for the younger set include imaging and animation. Hardware and its operations are not ignored. "It is very important to teach the terminology of computers," Izora said. "In our basic computer classes, we have computers, hard drives, and disks opened up. We take them through our museum and show them how computers work before they even sit down at the machine."

There are courses for entire families. "One of the ways we impact the community is by working with family groups together," Izora said. "They learn not only the technical skills of computing but discover a common ground to come together and learn as a group."

Plugged In also works with Free at Last, a drug and alcohol recovery program for adults. One Free at Last client, Theresa Silas, expressed her enthusiasm for the encouragement she is getting at Plugged In. "I just started taking computer courses in November. I love coming here. The time goes by so fast when I'm on a computer." Silas, forty-five, said she spent twenty years as a drug addict, and is working toward rebuilding her life. "I want to become a speaker who talks to kids from drug-addicted, dysfunctional families," she said.

Plugged In has been exploring internships for local teens, too. In some cases, this means Plugged In teens work at the center; in others, part-time jobs are arranged at nearby Silicon Valley sites. "Last summer, we had one kid who worked twenty hours a week at another company and twenty hours a week here," Izora said.

The staff has an eye on the future of the East Palo Alto community. "Younger kids learn practical and technical skills so when they go on to high school they'll be able to compete with those who have grown up with computers in their homes," Izora said. "We also teach them life skills: how to work in partnership, how to prioritize, how to storyboard. The community, in a lot of similar ways, benefits. The skills we teach will get people through the door to compete in the job market. The training we offer teachers helps them when they go back to their schools."

Hardware, Software, And Wetware

Plugged In currently has nine Macintosh LCIII and Quadra 800 computers, and six Pentiums available for community use. A seventh Pentium functions as a server for Internet connections. All computers have full Internet and Web capabilities. The Macs and Pentiums are not currently linked together, but should be by March of 1996.

Hewlett-Packard donated two laser printers and a full-color inkjet printer that produces poster-sized printouts. Izora said students will use the inkjet printers to create storyboards for animations, slide shows, and videos. A new videoconferencing system runs on ProShare, which provides nearly lifelike 10- to 15-frames-per-second full-color video with synchronized sound.

PageMaker 4.2, Adobe Photoshop, SoundEdit, Turbo Math Facts, Slide Show, and other programs are available for users. There are also video games and simple graphics programs for the younger set.

Seven full-time staff members work at Plugged In. Approximately twenty volunteers donate time there on a regular basis, and many more offer help whenever they can. All scheduled classes are taught by instructors who hold college degrees; volunteers work as teachers' assistants. Proficiency in AppleTalk or Novell, Mac OS, UNIX, and TCP/IP networks are among the skills Plugged In seeks from its volunteers. Plugged In also provides volunteer training, so literacy on all platforms is not a requirement.

Funding

The majority of Plugged In's financing comes through donations. "We get most of our support from organizations like the San Francisco Foundation and the Peninsula Community Foundation," said Izora. "We also get a lot of support from Silicon Valley companies like Apple and Hewlett-Packard. They give us equipment as well as financial donations."

In its first year, Plugged In worked with a budget of $80,000, but that figure has grown rapidly. Izora says the projected funding for 1996 is approximately $350,000. A large chunk of that money is from a $192,995 Federal Commerce Department Telecommunications Information Infrastructure Assistance Program grant, which will be doled out over the next eighteen months. Private organizations have offered to contribute over $200,000 in matching funds. Intel has already donated $35,000, which Plugged In used to purchase the new Pentiums. Bay Networks gave Plugged In its router and hub, and employees from both companies volunteered their time to help set up the new network.

Plugged In Entrepreneurs

Not all of Plugged In's monies come through donations, however. The participants do their share of fund-raising activities. Kids at the center created a Plugged In logo for T-shirts that are sold on-site. "The kids actually designed the letters on the computer," Izora said. "They take it on disk to a jobber and have the printing done there."

By far the most financially rewarding student-run project is Plugged In Enterprises. Since the summer of 1995, a small group of teens has been developing entrepreneurial skills at the center. PIE teens create home pages on the Web for various businesses, charging as much as $100 per hour for their labor. They have built Web pages for Amnesty International and General Atlantic Partners.

Whether clients want weekly updates on their digital storefronts or prefer home pages that are fixed, PIE works to satisfy them. "The students meet with the clients and develop a package to fit their needs," said Izora. PIE's projected revenue for 1996 is $25,000. Profits go into a trust fund reserved for scholarships and seed money to continue the business. According to Izora, PIE also makes one pro bono home page per month for other nonprofit organizations such as COTS, a Petaluma shelter and resource service for the homeless.

PIE started out with one student, Nathan Kuriger, but as more teens developed their HTML skills, the number grew. "We have four

continued on page 227

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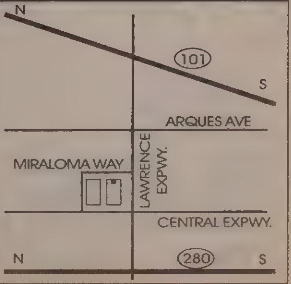

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BY JOHN C. DOWNEN

24 Hours In Cyberspace

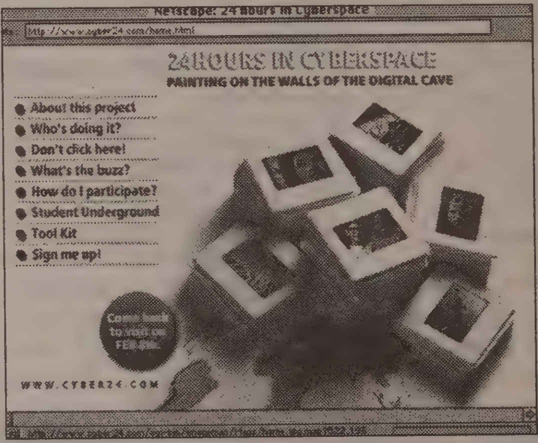
Photojournalism Goes Online—Instantly (Well, Almost)

On February 8, Rick Smolan and his company Against All Odds Productions will present 24 Hours in Cyberspace. Over a thousand photographers, including one hundred of the world's top photojournalists, will disperse over the planet to document a day in the life of the online world. The goal is to show how the online "revolution" is affecting people's lives, to see what kind of influence cyberspace is having on Euclidean space. Smolan is the creator of the "Day in the Life" series of photo books, the *From Alice to Ocean* book and CD-ROM, and the more recent *Passage to Vietnam* book and CD-ROM. However, this will not just result in another attractive coffee-table book (although that and a CD-ROM are due this fall), but will be available to the public as it's happening.

The Medium Is The Message

Not only will the photographers be documenting cyberspace and its effects on the real world—from wildlife officials in Malaysia tracking elephants online to East Palo Alto's Plugged In teaching troubled teens to design Web pages for businesses—cyberspace will be an essential part of the process and the product. Through the use of scanners, digital cameras, and email, photographers will send their images directly to the project's headquarters in San Francisco. There, a team of over eighty editors (from publications like *Time*, *Newsweek*, *Fortune*, and *National Geographic*), programmers, and designers will sort through the material, decide what merits publishing, and put it up on the Web (*http://www.cyber24.com/*) that same day.

"The project is intended to be both a chronicle of and a benchmark for the myriad ways global telecommunications technologies—specifically the Internet—are beginning to impact people's public and private lives for better and also for worse," says Kurt Foss, the event's technical advisor. "A February 8 time capsule documenting the beginnings of what may become a true 'Information Superhighway' will provide an opportunity to look back on the forces at work as well as more fully imagine its potential. At the same time, it will help people focus on some of the important legal, technical, and ethical issues raised by interconnecting the world through computer networks."



The project's major sponsors are Eastman Kodak, Sun Microsystems, and Adobe Systems, who are providing film, processing, digital cameras, and other photographic equipment; servers, storage, workstations, network security, and Java programming; and graphics, publishing, and Internet software solutions, respectively. In addition, Netscape Communications, NEC, American Power Conversion, Illustra Information Technologies, Farallon Computing, NOW Software, and many others are contributing software and hardware.

The event will also be part of the grand opening of the Internet 1996 World Exposition (*http://park.org/*), a year-long "world's fair for the Information Age" whose goal is to show "every work known to man"—like the world's fairs of the nineteenth and early twentieth centuries—and where anyone can set up a "pavilion" and participate. This will help alleviate some of the load by mirroring the site on eight different servers around the world, so spectators can access the one nearest them.

Aside from the technical aspects, the basic idea of 24 Hours in Cyberspace is similar to Smolan's popular "Day in the Life" book series (*A Day in the Life of America* was the best-selling photographic title in American history according to the press materials), i.e., creating a photographic record of twenty-four hours in the life of a place. Cyberspace being what it is, one might think this would yield lots of lovely screen shots of newsgroup and IRC discussions, email messages, FTP sites, telnet sessions, and UNIX commands, sprinkled liberally with Web pages for color and images of glassy-eyed netsurfers for the human element; however, "the goal will be to go far beyond showcasing the technology itself," says Foss. "Pictures of people working at computers, although an obvious part of such a project, will be a minor aspect of the content captured and distributed in the project's Web site, book, and CD-ROM. The challenge is to record the human context in which these networked computers are being utilized—the lives and cultures in which these tools are bringing about change."

In addition to the work from professional

continued on page 228

BENTEK USA COMPUTER

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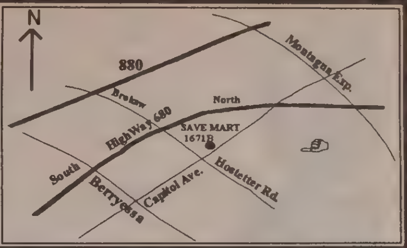

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Intel Atlantis P5-100/256K Pipelined PCI	600
Intel Atlantis P5-90/256K Pipelined PCI	580
Intel Endeavor P5-166/256K Pipelined PCI	995
Intel Endeavor P5-150/256K Pipelined PCI	765
Intel Endeavor P5-133/256K Pipelined PCI	755
Intel Endeavor P5-120/256K Pipelined PCI	580
Intel Endeavor P5-100/256K Pipelined PCI	509
Intel Endeavor P5-90/256K Pipelined PCI	479
Intel ZappaTriton P5-133/256K PCI	710
Intel ZappaTriton P5-120/256K PCI	530
Intel ZappaTriton P5-100/256K PCI	460
Intel ZappaTriton P5-90/256K PCI	430
Intel Triton P5-166 PCI 256K	900
Intel Triton P5-150PCI 256K	684
Intel Triton P5-133PCI 256K	643
Intel Triton P5-120PCI 256K	466
Intel Triton P5-100PCI 256K	410
Intel Triton P5-90PCI 256K	379
486DX4-120/256K AMD	180
486DX4-100/256K VLB AMD / INTEL	170/170
486DX2-80/256K VLB AMD	125
486DX2-66/256K VLB AMD	120
486DX2-66/256K VLB INTEL	160
486DX-33/256K VLB INTEL	110

BEST BUY SYSTEM
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Intel Atlantis P5-150/256K Pipelined PCI	1,820
Intel Atlantis P5-133/256K Pipelined PCI	1,750
Intel Atlantis P5-120/256K Pipelined PCI	1,570
Intel Atlantis P5-100/256K Pipelined PCI	1,510
Intel Atlantis P5-90/256K Pipelined PCI	1,480
Intel Endeavor P5- 166/256K Pipelined PCI	1,950
Intel Endeavor P5- 150/256K Pipelined PCI	1,715
Intel Endeavor P5- 133/256K Pipelined PCI	1,705
Intel Endeavor P5- 120/256K Pipelined PCI	1,530
Intel Endeavor P5- 100/256K Pipelined PCI	1,470
Intel Endeavor P5- 90/256K Pipelined PCI	1,440
Intel Zappa Triton P5- 133/256K PCI	1,670
Intel Zappa Triton P5- 120/256K PCI	1,500
Intel Zappa Triton P5-100/256K PCI	1,440
Intel Zappa Triton P5- 90/256K PCI	1,400
Intel Triton PENTIUM 166/256K PCI	1,878
Intel Triton PENTIUM 150/256K PCI	1,642
Intel Triton PENTIUM 133/256K PCI	1,620
Intel Triton PENTIUM 120/256K PCI	1,440
Intel Triton PENTIUM 100/256K PCI	1,390
Intel Triton PENTIUM 90/256K PCI	1,347
486DX4-120/256K AMD	1,157
486DX4-100/256K VLB AMD / INTEL	1,147/1,147
486DX2-80/256K VLB AMD	1,103
486DX2-66/256K VLB AMD	1,100
486DX2-66/256K VLB INTEL	1,145
486DX-33/256 VLB INTEL	1,080

SYSTEM CONFIGURATION

* MotherBoard w/256 KCache
* 8 MB RAM installed
* 1.44 Floppy Drive
* **540 MB Fast IDE Hard Drive**
* EIDE VLB w/I/O (PCI for Pentium)
* Cirrus Logic SVGA VLB w/ 1MB
* Spider Tarantula Lyxn 64 PCI w/1MB (For Pentium)
* 14" SVGA .28 Non-in Color Monitor
* Mini Tower Case w/230W P.S.
* 101 Mitsumi keyboard
* Mouse w/ Mouse Pad
* 4x CD-ROM + Stereo Sound 16
* 100 Watt Speakers * Free CPU Fan

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Full Tower Case	40
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Logitech Mouse	15
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16 MB 70ns 72 PIN (4x36)	410
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1 MB 80/70ns 30 PIN (1x9)	23/25
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EIDE VLB w/ I/O 16550	24
Adaptec 1542CF ISA	165
Adaptec SCSI 2842 VLB	190
Adaptec SCSI 2940/2940W PCI	180/190
Adaptec 3940/3940W SCSI PCI	290/330

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Sound Blaster Compatible 16 bit	50
SoundBlaster 16 IDE Creative Lab	70
SoundBlaster AWE 32	132
SONY Double Speed IDE CD-ROM	60
PANASONIC 4X speed IDE CD-ROM	105
MISUMI Quad Speed IDE CD-ROM	105
TOSHIBA 4X SPEED IDE 5302B	115
TEAC 6 SPEED IDE	170
TOSHIBA 6 SPEED 3701B SCSI	320
NEC SCSI-2 CD-ROM Quad Speed	160

VGA

SVGA ISA w/ 1MB	55
SVGA CirrusLogic VLB w/1MB/2MB	70/120
SPiDER	
Spider Lynx 64 PCI 1MB/2MB	70/110
Spider 32 VLB 1MB/2MB	75/115
Spider 256 VLB 1MB/2MB	75/115
Tarantula Lite(S3) PCI w/ 1MB/2MB	80/120
Tarantula 64 MKII PCI 2MB/4MB	240/360
Tarantula 64 PCI 1MB/2MB VRAM	150/200
Tarantula 64 VLB or PCI 4MB VRAM	330
DIAMOND	
Stealth SE VLB w/ 1MB /2MB	90/135
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CONNER 850IDE	190
CONNER 1.2 GB IDE	230
WESTERN DIGITAL 540 IDE	170
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WESTERN DIGITAL 1.6 GB IDE	290
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Impression SVGA 15" .28 NI	315
Impression SVGA 17" .26 NI	560
Mag 15" .28	365
Mag 1795 17" .26	640
Sony 15sf /15sf II	465/495

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14400 Fax/Modem w/ Voice	60
US ROBOTICS Fax/Modem 28800	190
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Desktop AT case w/230 Watt P.S	40
Medium Tower Case w/ LED 230 Watt P.S	58
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Full Tower Case w/ door open 300 Watt	95
Corolodo 350Mb Tape Backup	125
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Logitech Mouse Serial	20
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Any CD-ROM Audio Cable to SBlaster	5
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4- 15% Restocking fee on returns
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* Mini Tower Case w/230W P.S.
* 101 Mitsumi keyboard
* Microsoft Compatible Mouse w/ Pad

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486DX2-66/256K VLB INTEL	795
486DX-33/256K VLB INTEL	750
486DX4-100/256K VLB AMD	799
486DX2-80/256K VLB AMD	750
486DX2-66/256K VLB AMD	740

BENTEK PENTIUM SYSTEM

* Intel Triton MB PCIw/256K Cache
* Intel Pentium CPU
* 8MB RAM installed 72 pin
* 1.44 Floopy Drive
* 540 MB IDE HD
* IDE PCI w/ I/O 16550 controller
* Spider Tarantula Lite PCI video(S3) 1MB
* 14" SVGA .28 Color Non-IN Monitor
* Mini Tower Case w/230W P.S.
* 101 keyboard + Mouse w/ Pad

Intel Pentium 133MHz	$1400
Intel Pentium 120MHz	$1230
Intel Pentium 100MHz	$1180
Intel Pentium 90MHz	$1150
Intel Pentium 75MHz	$1070

BY MARY EISENHART

Intrepid Pioneers Test Free Wireless In Rural Schools

In Center, Colorado, economic resources are few, and many of the students come from homes too poor to afford telephones. But on the day I'm visiting, I can walk up to a newly installed machine in one of the classrooms and Websurf, thanks to couple of Metricom Richochet wireless modems. And thanks to some similarly outfitted laptops, so can the phoneless students, from home.

Center is one of thirteen small and ferociously independent towns in Colorado's San Luis Valley, currently the site of a test to determine whether spread-spectrum wireless technology can be used in the free public-access frequencies to allow such remote rural sites to reach the net affordably. (For more information on this subject, see the "Realizable Fantasies" column in issues 140 and 142, also archived on our Web site.)

Led by "Cursor Cowboy" Dave Hughes of Colorado Springs, the project is funded by the National Science Foundation and addresses one of the primary difficulties rural schools face: connecting to an Internet provider in an area where high-bandwidth connectivity is all but unknown and nearly everything's a toll call. Often telcos simply don't offer the necessary service, or they offer it at a price well outside the means of rural communities. Even when the phone companies offer extremely attractive incentives—e.g. pilot programs for free 800-number access—these incentives eventually end, leaving the schools saddled with monthly phone bills of hundreds or thousands of dollars.

While isolation and independence have not blinded the locals to the advantages of giving their children access to MIT professors, the prospect of such ongoing charges is a major impediment to making such a connection.

Unlicensed-spectrum communications offer some hope of an end-run around this situation. While the up-front costs for the wireless devices (which, depending on a number of factors including the distance across which they can transmit, range from around $500 to several thousand dollars) are greater than the cost of modems, the costs are quickly offset by the fact that the connections are free.

Dave Hughes has become a legendary figure in Colorado, and representatives of the likes of AT&T and Motorola look distinctly greenish as he stands before state legislators brandishing a Ricochet and urging them to keep the unlicensed spectrum free and unlicensed. But even as he demos the technology to a receptive populace, Hughes is candid about the fact that the purpose of the grant and the project is to push this technology to its limits, to learn where it does and doesn't fail. Repeaters could be buried in snow; some of the smaller ones might even be eaten by bears. (Indeed, some hours after I Websurfed in Center, he confessed that he really hadn't expected that particular configuration to allow me any access due to a weak signal.)

Not Ready For Prime Time?

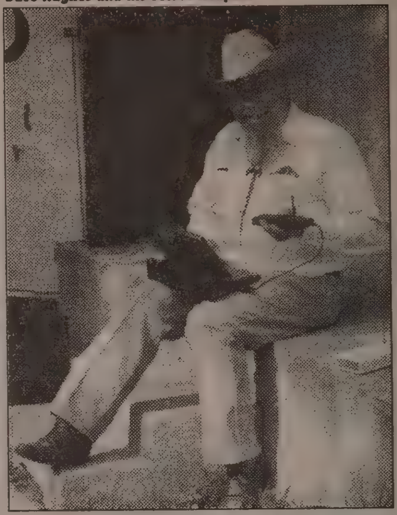
Dewayne Hendricks (of Fremont-based Warp Speed Imagineering) is currently in the process of installing some of the necessary infrastructure. "Dave likes to talk about the upside a lot," he says. "I have to make the stuff work."

He adds, "I think the biggest challenge that we will have to communicate to the world as a result of the NSF project will be to show that the use of radio to move data, while attractive for a number of reasons (economic, bypass the telco cartel, etc.), is going to remain outside of the scope of the average consumer for at least the next several years. The big problem is not the use of these systems, but how they initially get deployed and installed."

Consider DBS satellite systems, says Hendricks. They're just getting to a price point to be attractive to consumers, and, while they're far from a do-it-yourself project for most people, there's now an extensive dealer and support network to make installing and using the system fairly painless. In contrast, he says, "Part 15 unlicensed wireless systems are quite a ways yet from the type of sales, installation, and support you now find for DBS systems. There is no consumer-style dealer support infrastructure. If you buy one of these products, you are pretty much on your own as to getting it to work. There are no inter-operability standards, so equipment from one company won't talk to that of another. Since these devices share spectrum with other services, you can find that something that works today won't work tomorrow. To make it worse, unless you are very skilled in radio technology and have the proper equipment, you will be hard pressed to determine just what has gone wrong."

Hendricks thinks it will take about five years for this market to reach the state of today's DBS market in terms of support infrastructure and price points. But despite his cautionary words, he's optimistic that this particular project will not only benefit the rural schools of the San Luis Valley in the short run, but will also serve as a useful step along the development path. ■

Dave Hughes and his secret weapon.



RESOURCES:

Dave Hughes
Old Colorado City Communications
dave@oldcolo.com

Dewayne Hendricks
Warp Speed Imagineering
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GrandPrix

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2.1GB	ST32550N	8ms	Fast SCSI-2	**$829**
4.3GB	ST15230N	9ms	Fast SCSI-2	**$999**
4.3GB	ST15150N	8ms	Fast SCSI-2	**$1239**
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2.1GB	M2932S	10ms	Fast SCSI-2	**$Call**
2.1GB	M2934S	10ms	Fast SCSI-2	**$949**

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1.6GB	WD31600	9ms	EIDE	**$359**

HEWLETT PACKARD

1.2GB	C3724S	9.5ms	Fast SCSI-2	**$299**
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540MB	M1924FCV	13ms	EIDE	**$329**
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200MB	SQ5200C	SCSI	**$359**
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Kits include terminator, SCSI cable, and 1 cartridge!

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CONTROLLERS

adaptec

SCSI Host Adapters

All Kits include software, cables, and documentation!

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AHA-2842VL	32 Bit VL to Fast SCSI-2 Kit	**$229**
AHA-2920	PCI PIO Fast SCSI Host Adapter	**$149**
AHA-2940	32 Bit PCI to Fast SCSI-2 Kit	**$249**
AHA-2940UW	32 Bit PCI Ultra-Wide SCSI Kit	**$289**
AHA-3940	2-channel PCI to Fast SCSI-2 Kit	**$399**
AHA-3940W	2-channel PCI to Wide SCSI Kit	**$459**
AHA-3985W	3-channel PCI Wide SCSI RAID-5 Kit	**$759**
APA-348	Parallel Port to SCSI Kit	**$89**
APA-358	Enhanced Parallel Port to SCSI Kit	**$119**
APA-1460	16 Bit PCMCIA to Fast SCSI-2 Kit	**$169**

BUSLOGIC

SCSI Host Adapters

All Kits include software, cable, and documentation!

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KT-946C	32 Bit PCI Fast SCSI-2 Kit	**$235**
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IDE Caching Controllers

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KT-910A	32 Bit PCI, 4HD to 4GB	**$159**

PROMISE

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EIDE4030+	EIDE/IDE cache up to 16MB, 16550, CD-ROM Cache	**$125**
DC5030E	PCI/EIDE, caching up to 16MB, BusMaster	**$139**
DC540	PCI, Fast & Wide SCSI-2 NCR Chip, BusMaster	**$169**

VIDEO CARDS

DIAMOND

Stealth SE	1MB/2MB, PCI/VLB, DRAM	**$95/149**
SpeedStar 64 2000	1MB/2MB, ISA, DRAM	**$145/199**
Stealth 64 Video 2000	1MB, PCI/VLB, DRAM	**$159**
Stealth 64 Video 2000	2MB, PCI/VLB, DRAM	**$199**
Stealth 64 Video 3000	2MB, PCI/VLB, VRAM	**$259**
Stealth 64 Video 3000	4MB, PCI/VLB, VRAM	**$479**

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9FX Vision 330	1MB Power accel. PCI/VLB DRAM	**$139**
9FX Vision 330	2MB Power accel. PCI/VLB DRAM	**$189**
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9FX Motion 771	2MB/4MB PCI/VLB VRAM	**$299/449**
IMAGINE 128	2MB/4MB PCI VRAM	**$495/625**
IMAGINE 128 1600	4MB PCI VRAM	**$845**
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WinTurbo PCI/VLB/ISA, 1280x1024, 2MB VRAM	**$269**
Graphics Pro Turbo PCI/VLB/ISA, 1280x1024, up to 100HZ, 2MB/4MB, VRAM	**$349/499**
Graphics Pro Turbo 1600 PCI 1600x1200, up to 100HZ, 4MB VRAM	**$Call**

matrox

All cards upgradeable to 4MB & 8MB

Millennium	2MB PCI 1600x1200 @ 85HZ	**$349**
Millennium	4MB PCI 1600x1200 @ 85HZ	**$469**

FUJITSU
NEW!

Sapphire 2SX/ 8MB, PCI, VRAM, 1600x1200, 3D/Windows NT Accelerator Card $1225

TAPE BACKUP

HEWLETT PACKARD

DAT Series (4mm)		*Int/Ext*
C1534A	2.0GB, 3.5" DDS-1, 183KB	**$659/759**
C1536A	2-4GB, 3.5" DDS-1, 366KB	**$769/869**
C1533A	4-8GB, 3.5" DDS-2, 510KB	**$999/1099**
C1553A	24-48GB, 5.25" DDS-2	**$2079/2189**
HP-BKT	5.25" bracket for 3.5" Int. unit	**$39**

EXABYTE

Every tape backup includes 1 free tape,
2 year warranty (48 hour repair/replace) and cable!

		Int/Ext
2501	1-2GB QIC w/SW comp.	**$439/639**
4200	2-4GB 4mm w/SW comp.	**$769/869**
4200C	2-4GB 4mm w/HW comp.	**$869/969**
8205XL	3.5-7GB 8mm, 32MB/min w/comp.	**$1299/1399**
8505XL	7-14GB 8mm, 60MB/min w/comp.	**$1899/2099**
8700	7-14GB 8mm w/SW, adapter	**$NA/1699**

CONNER

Tape•Stor Mini-Cartridge Tape Backup System

TSM-420	Int./Ext.	420MB QIC Wide	**$149/249**
TSM-850	Int./Ext.	850MB QIC Wide	**$199/315**
TSM-1700	Int.	1.7GB QIC Wide	**$199**
TSM-4000	Int./Ext.	4.0GB QIC Wide SCSI	**$379/479**
TSM-4000	Int.	4.0GB QIC Wide EIDE	**$379**
TST-800	Int./Ext.	800MB Travan	**$149/239**
TST-3200	Int.	3.2 GB Travan	**$269**

NETWORKING

3Com

3C509B	Etherlink-3, 16 Bit EISA UTP	**$99**
3C590	Etherlink-3, PCI BusMastering UTP	**$119**
3C16180	Link Builder UTP 8-Port Hub	**$189**
3C16670	Link Builder FMS2 12-Port Hub	**$549**

IBM

48G7169	ISA Ethernet LAN Adapter	**$99**
0934331	PCMCIA Ethernet LAN Adapter	**$159**
92G7632	ISA Token Ring LAN Adapter	**$229**
04H6922	PCMCIA Token Ring LAN Adapter	**$349**

intel

EtherExpress Flash ISA UTP	**$89**
EtherExpress Pro/10 with Flash ISA UTP	**$125**
EtherExpress Pro/100 PCI Model B UTP	**$139**
TokenExpress PRO LAN Adapter w/Flash	**$235**

SMC

EtherEZ	ISA Ethernet Adapter, UTP	**$115**
EliteCard	16 Bit PCMCIA Ethernet Adapter	**$125**
EtherPower	PCI Ethernet Adapter, UTP	**$135**
TigerHub-TP6	6-Port Twisted Pair Ethernet Hub	**$165**

Novell

NetWare & Upgrades	**$Call**

MODEMS

USRobotics

Sportster 14.4 Int/Ext Data/Fax V.32 w/V.42 bis	**$95/115**
Sportster Vi 14.4 Int/Ext FaxModem w/Voicemail	**$119/139**
Sportster 28.8 Int/Ext Data/Fax V.34	**$185/199**
Sportster Vi 28.8 V.34 Int/Ext FaxModem w/Voicemail	**$209/229**
Sportster 14.4 V.34 PCMCIA FaxModem	**$189**
Sportster 28.8 V.34 PCMCIA FaxModem w/DataView	**$329**

PRACTICAL PERIPHERALS

PM288HC-II	28.8 Int V.34 Data/Fax Half Card	**$169**
PM288MT-II	28.8 Ext V.34 MiniTower Data/Fax	**$189**
PC288T2-EZ	28.8 V.34 PCMCIA Data/Fax w/EZ-Port	**$299**
PC288LCD	28.8 Ext V.34 Data/Fax w/3-line LCD	**$359**

IBM

73G1393	ISA Waverunner ISDN	**$499**
04H7686	PCMCIA Waverunner ISDN	**$559**

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1x8/60-70ns	1MB, 8 Chip, 30 Pin, 60 or 70ns	**$Call**
4x9/60-70ns	4MB, 9 Chip, 30 Pin, 60 or 70ns	**$Call**
4x3/60-70ns	4MB, 3 Chip, 30 Pin, 60 or 70ns	**$Call**
1x32/60-70ns	4MB, 72 Pin, 60 or 70ns no parity	**$Call**
1x36/60-70ns	4MB, 72 Pin, 60 or 70ns w/parity	**$Call**
2x32/60-70ns	8MB, 72 Pin, 60 or 70ns no parity	**$Call**
2x36/60-70ns	8MB, 72 Pin, 60 or 70ns w/parity	**$Call**
4x32/60-70ns	16MB, 72 Pin, 60 or 70ns no parity	**$Call**
4x36/60-70ns	16MB, 72 Pin, 60 or 70ns w/parity	**$Call**
8x36/60-70ns	16MB, 72 Pin, 60 or 70ns w/parity	**$Call**

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DRM-A600	6-CD Magazine	**$29**
DR-U124X	Int. 1-Disc, 4.4X, 110ms SCSI-2	**$179**

TOSHIBA

5402	Internal 4X, IDE, 150ms	**$119**
XM3701B	Internal 6.7X, SCSI-2, 120ms	**$325**

PLEXTOR

PX-43CE+	Internal 4.5X, 130ms SCSI-2	**$279**
PX-45CE+	External 4.5X, 130ms SCSI-2	**$359**
PX-63CS	Internal 6X, 145ms SCSI-2	**$359**
PX-65CS	External 6X, 145ms SCSI-2	**$439**

NEC

CDR-502	Internal 6X, 145ms SCSI-2	**$349**
CDR-602	External 6X, 145ms SCSI-2	**$499**

RECORDABLE CD-ROM

SONY

5.25" SCSI, Reads/writes 2X, 1MB buffer, 300KB/sec!
Bundled w/Corel CD Creator Software for Windows!

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Spressa CSP9211S	Ext. w/8 recordable discs!	**$1499**
74min/650MB Recordable Blank Media		**$15**

PINNACLE MICRO

5.25" Ext. SCSI, Reads/writes 2X, 1MB buffer, 300KB/sec!

RCD-1000 MAC	w/SW for Mac	**$1399**
RCD-1000 PC20	w/SW for PC & Adaptec 1520	**$1399**
RCD-1000 MAC-MM	w/Astarte-Toast SW for Mac	**$1599**
74min/650MB Recordable Blank Media		**$15**

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Phone BLASTER	**$185**
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Sound BLASTER 32 Plug & Play	**$155**
Sound BLASTER AWE 32 Plug & Play	**$225**
Creative Labs Blaster CD 6X	**$275**
Sound BLASTER Value CD 4X	**$279**
Sound BLASTER Discovery CD 4X Plug & Play	**$329**

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MULTIMEDIA

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4400 Plug & Play sound card w/3D, 20 titles	**$289**
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Insights *continued from page 18*

MicroTimes Stock Index Takes It On The Chin

Technology stocks lost their momentum entering the new year. Specifically, the MicroTimes Stock Index plummeted 787.87 points, or 9.92%, before coming to rest at 7157.50 for the month ended January 22, 1996. In comparison, the Dow Jones Industrial Average rose 2.89 points, or 0.06%, to reach an all-time high of 5219.36, while the S&P 500 Index slipped 8.29 points, or 1.33%, to close at 613.40. The MT Index read as follows: declining issues outpaced advancing issues by an 18-to-10 count, and there were six new 52-week highs vs. nine new 52-week lows.

Turning to the stocks in the MicroTimes Index:

Dell Computer Corp. cut prices across its Dell OptiPlex line of desktop personal computers by up to 23%. The move was prompted by lower costs for components including microprocessors, hard disk drives, and memory. Dell's lower prices cover a range of desktop configurations that include high-performance network-ready systems with 166MHz Intel Pentium processors. For the month, shares of Dell Computer slid 9.38 points, or 26.04%, to close at $26.63.

Apple Computer reported a first-quarter loss of $69 million and announced thirteen hundred job cuts worldwide. However, the company said that no immediate layoffs are being made in its Asian operations. In other news, Sun Microsystems has renewed its efforts to acquire Apple Computer, as meetings among Sun executives continue. Investors watched their shares for Apple Computer drop 7.88 points, or 20.52%, to close at $30.50.

Adobe emerged as the largest dollar loser in our index for the last month as it dropped a resounding 33.25 points, or 46.18%, to close at $38.75. For the fourth quarter of 1995, Adobe reported a 7% increase in sales over the year-ago quarter and a $12 million loss for the quarter. For the year, the company reported net income of $93.5 million, compared with net income of $15 million in 1994.

Symantec represented the largest percentage loser in our index as it was down 14.88 points, or 56.94%, to close at $11.25. The company warned that its results for the quarter ending December 31, 1995, are expected to be below analyst estimates according to information that management has received. For the quarter, management expects revenues to be slightly above the prior quarter and also expects results from continuing operations to be slightly above the break-even. ■

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 12/13/95	CLOSING PRICE 01/22/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
OTC	Adobe		ADBE	72.00	38.75	-33.25	-46.18	31	0.20	0.52	74.25	28.50
OTC	Autodesk	(L)	ACAD	38.50	30.50	-8.00	-20.78	20	0.24	0.79	53.00	27.75
OTC	Borland		BORL	18.38	15.50	-2.88	-15.65	-	0.00	0.00	20.63	6.50
OTC	Informix		IFMX	28.88	31.50	2.63	9.09	48	0.00	0.00	34.38	14.88
OTC	Microsoft		MSFT	91.75	92.00	0.25	0.27	53	0.00	0.00	109.25	58.25
OTC	Novell	(L)	NOVL	15.25	13.13	-2.13	-13.93	15	0.00	0.00	23.25	13.00
OTC	Oracle		ORCL	43.25	46.00	2.75	6.36	43	0.00	0.00	48.75	27.88
OTC	Software Publishing	(L)	SPCO	3.63	2.81	-0.81	-22.41	-	0.00	0.00	5.63	2.19
OTC	Symantec	(L)	SYMC	26.13	11.25	-14.88	-56.94	10	0.00	0.00	33.25	9.88
	HARDWARE											
OTC	Apple	(L)	AAPL	38.38	30.50	-7.88	-20.52	23	0.48	1.57	50.13	29.25
OTC	AST Research		ASTA	8.88	8.75	-0.13	-1.41	-	0.00	0.00	19.13	7.50
NYS	Compaq		CPQ	47.63	48.25	0.63	1.31	14	0.00	0.00	56.75	31.13
NYS	Digital Equipment	(H)	DEC	63.38	67.50	4.13	6.51	36	0.00	0.00	68.75	31.13
OTC	Dell		DELL	36.00	26.63	-9.38	-26.04	10	0.00	0.00	49.38	19.75
NYS	Hewlett-Packard		HWP	80.75	80.75	0.00	0.00	17	0.80	0.99	96.63	50.13
NYS	IBM		IBM	94.50	102.25	7.75	8.20	10	1.00	0.98	114.63	70.25
NYS	Silicon Graphics	(L)	SGI	35.00	27.75	-7.25	-20.71	21	0.00	0.00	45.63	21.13
OTC	Sun Microsystems		SUNW	48.88	48.56	-0.31	-0.64	22	0.00	0.00	51.50	15.00
NYS	Xerox		XRX	136.00	141.38	5.38	3.95	17	3.00	2.12	144.63	103.38
NYS	Tandy	(L)	TAN	42.00	38.38	-3.63	-8.63	12	0.80	2.08	64.38	34.13
	CPU'S											
NYS	Advanced Micro Devices	(L)	AMD	18.13	19.25	1.13	6.21	7	0.00	0.00	39.25	16.13
OTC	Intel		INTC	62.63	52.00	-10.63	-16.97	13	0.16	0.31	78.38	34.00
NYS	LSI Logic		LSI	36.19	26.00	-10.19	-28.15	14	0.00	0.00	62.50	19.75
NYS	Motorola	(L)	MOT	59.88	53.13	-6.75	-11.27	18	0.40	0.75	82.50	44.75
	COMMUNICATIONS											
NYS	AT&T	(H)	T	68.13	64.63	-3.50	-5.14	25	1.32	2.04	68.88	47.88
NYS	BellSouth Corp.	(H)	BLS	42.00	40.63	-1.38	-3.27	18	1.44	3.54	45.88	27.38
OTC	MCI	(H)	MCIC	26.50	27.81	1.31	4.95	47	0.05	0.18	28.38	17.38
NYS	Northern Telecom	(H)	NT	43.63	43.75	0.13	0.29	25	0.44	1.01	44.75	31.50
NYS	Pacific Telesis	(H)	PAC	34.25	28.75	-5.50	-16.06	12	2.18	7.58	35.25	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	10
DECLINES	18
UNCHANGED	1
NEW HIGHS	6
NEW LOWS	9

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	IBM	$	7.75
LARGEST DOLLAR LOSER	Adobe	$	-33.25
LARGEST PERCENTAGE GAINER	Informix		9.09 %
LARGEST PERCENTAGE LOSER	Symantec		-56.94 %

	CLOSE 12/13/95	CLOSE 01/22/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7945.37.	7157.50	-787.87	-9.92
DOW JONES INDUSTRIAL AVERAGE	5216.47	5219.36	2.89	0.06
STANDARD & POOR'S 500 INDEX	621.69	613.40	-8.29	-1.33
N.Y.S.E. COMPOSITE	331.17	328.70	-2.47	-0.75
NASDAQ COMPOSITE	1056.54	1029.44	-27.10	-2.56

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57
09/27/95	7831.95	4762.35
10/24/95	7807.96	4783.66
12/13/95	7945.37	5216.47
01/22/96	7157.50	5219.36

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BEST VALUE	Mother-board	MB-CPU	Basic System (see Bottom Detail)	Basic System+ 630MB HDD 4MB SVGA CARD SVGA MONITOR (850MB + 20)	Basic System + 1.2GBMB HDD 4MB SVGA CARD SVGA MONITOR (1.6GB + 59)
	ALL SYSTEMS COME WITH LIFETIME LABOR WARRANTY				
P5-133 Intel Atlantis (P5/150+$130)	$309	$789	$889	$1439	$1489
P5-100 Intel Atlantis (P5/120+$90)	309	589	689	1239	1289
P5-75 Intel Atlantis (P5/90+$90)	309	489	589	1139	1189
P5-133/256KIntel Zappa (P5/150+$130)	189	669	769	1319	1369
P5-100/256KIntel Zappa (P5/120+$90)	189	469	569	1119	1169
P5-75/256KIntel Zappa (P5/90+$90)	189	369	469	1019	1069
P5-133 Intel Endeavor (P5/155+$130)	209	689	789	1339	1389
P5-100 Intel Endeavor (P5/120+$90)	209	489	589	1139	1189
P5-75 Intel Endeavor (P5/90+$90)	209	389	489	1039	1089
486DX4-133C VLB	81	169	269	779	829
486DX4-100C VLB (DX4/120+$20)	81	139	239	759	809
486DX2-66C VLB (DX2/80 +$15)	81	109	209	729	779

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6x SCSI NEC CD-ROM	279
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1.05GB SCSI	299
2.1 GB SCSI	639

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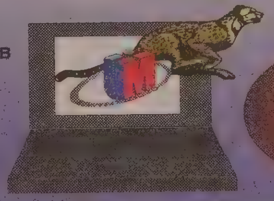

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CTX: 14 " SVGA 1024.28	229
15 " SVGA 1024.28 NI	335
IMPRESSION:14" NI	[illegible]
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NANAO: 17" NI	799
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17" NI	679
NEC, SONY, KFC, PROTON	LOWEST

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HP [illegible]	[illegible]

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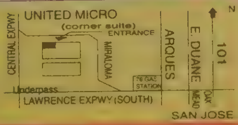

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This Ad Expires March 3, 1996

Telecommuting *continued from page 66*

muters may begin to show up as a black mark on a manager's record.

Acceptance

Organizational acceptance of telecommuting probably contains many nuances we have not yet noticed, simply because we don't have enough years of experience to recognize the subtle distinctions. But whatever the various shadings, organizations that have reached the acceptance stage are uniformly supportive of their telecommuters' individuality.

In practice, organizations at this fourth stage of development are willing to listen to telecommuters who want to spend more time—or less time—in the company's offices. They freely negotiate telecommuting agreements that meet the needs of each person, as well as the basic policies and objectives of the organization. They remain flexible enough to grant telecommuters frequent, small changes to their basic working pattern and responsibilities. And they stay focused on ends, rather than means, so that individuals can generally find enough freedom within the organization to make their best contributions both while telecommuting and while physicommuting to work.

> **Individual employees should be aware of their organization's stage of acceptance so they can make the most of their opportunities.**

Virtual Organizations

To be fair, let's acknowledge the large number of organizations that began life as—or developed into—what are popularly termed "virtual" organizations. These organizations have few (or even no) employees. Most of the work is accomplished by independent contractors who provide their own facilities and offices in which to accomplish the work they deliver to their employer—the virtual organization.

These contractors rarely get together in one place. Instead, they nearly always use telecommuting techniques to share information, coordinate activities, develop plans, make decisions, and complete assignments.

For virtual organizations, the normal progression through the four stages of telecommuting takes place invisibly, practically all at once, and leads to a level of success that would be almost impossible for a conventional, or "tangible" organization to obtain in that particular niche, segment, or market.

The Manager's Perspective

Managers should be aware of their organization's progression along these four stages of development for at least two reasons:

First, knowing what stage you're in helps you determine what particular progress to expect, and to push for, in the coming weeks and months. It also allows you to consolidate the gains already accomplished and more easily move from, say, individual or "guerrilla" telecommuting to a wider-ranging telecommuting initiative.

Second, an awareness of the organization's present stage of development allows you to find the key "promoters" of telecommuting within the organization, and work with them to build and increase a consensus understanding that the ranks of telecommuters should be expanded.

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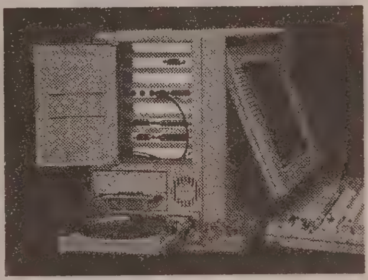

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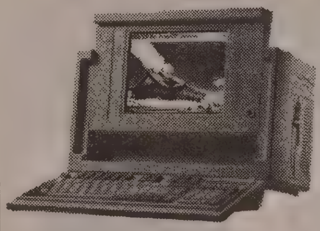

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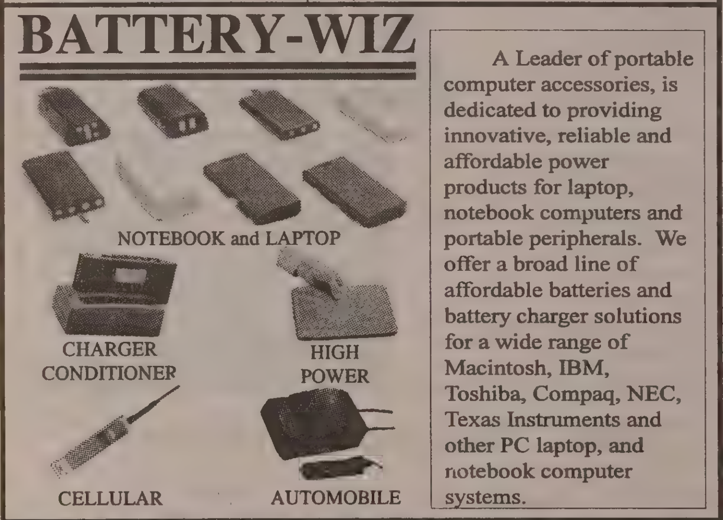
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The Teleworker's Perspective

Individual employees should be aware of their organization's stage of acceptance so they can make the most of their opportunities. For example, if the organization is in an early stage, you're most likely to win permission to telecommute only on an individual basis, and even then perhaps only if you have a strong desire to work this way.

When the organization reaches a later stage of development, however, you may be able to redefine your job and your responsibilities, combine your position with another position to yield new opportunities, and find the organization appreciative of a broader range of your personal contributions.

Telecommuter Legislation

Representative William (Bill) Baker, of California, has not given up on legislation he introduced that's titled the Telecommuter Tax Credit Act. His idea is to reward organizations that promote and support telecommuting among their employees by providing federal tax credits.

For example, under Baker's latest proposal, a telecommuter working full-time from home would earn his or her employer a $500 tax credit each year. The same telecommuter working from a telecommuting or satellite center would earn a $250 tax credit for his or her employer.

The tax credit would be prorated for telecommuters who work from home, or from centers, less than full-ime. For example, those who telecommute only twenty hours per week would earn only half the full tax credit. Those who telecommute only ten hours per week would earn only a quarter of the full tax credit.

Because of the relatively low priority the 104th Congress is putting on telecommuting matters, there has been very little debate on the merits or discussion over the details of this proposed law. So at present it's impossible to predict whether or not the Telecommuter Tax Credit will ever pass, and what it might look like if and when enacted.

Whatever their size and requirements, though, these tax credits would be intended to recognize, support, and extend telecommuting precisely because—as Representative Baker puts it—this new mode of work is pro-family, pro-public transportation, and pro-environment.

> Telecommuters now purchase more than $4 billion worth of telecommunications equipment and services annually.

California residents—or anyone—interested in expressing support for the Telecommuter Tax Credit Act can contact Representative Bill Baker (D-10th District) at 1724 Longworth House Office Building, Washington, D.C. 20036, phone: (202)225-1880, fax: (202)225-2150.

Telecommuter Market Survey

A review of the market for telecommunications services among active telecommuters and potential telecommuters by Cambridge Strategic Management Group (Cambridge, MA) shows that telecommuters now purchase more than $4 billion worth of telecommunications equipment and services annually. By the year

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486DX4-120 (3V)	n/a	$227	n/a

** Motherboard with CPU upgrade installation service $75 (optional)*

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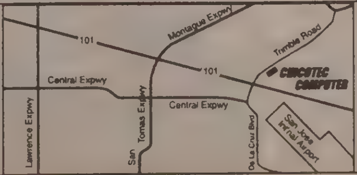

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Telecommuting *continued...*

2000, this number may rise to $19 billion!

The survey also shows that telecommuters spend more, per capita, than other people who work at home. For example, in 1994, telecommuters spent about $1000 each for telecommunications equipment and services. Other homeworkers spent only about $750 each. By the year 2000, this gap should increase as spending by other homeworkers stays flat or decreases a little, while spending by telecommuters increases to more than $1200 per person. This increase will take place in an environment of steadily declining telecommunications product and service prices. The main reason: Telecommuters tend to be very extensive users of high-value products and services.

In addition, while the number of other homeworkers is projected to grow at a relatively modest pace, the number of telecommuters is expected to continue its recent growth rate in the neighborhood of 100% per year.

Insurance Reminder

With the rapidly changing insurance situation in the US, and particularly in California and Florida, be sure to check your present insurance to verify that the equipment and data you're relying on for successful telecommuting is covered in the event of a fire, theft, or other disaster.

A recent review of standardized policies shows that many of them specifically exclude any equipment or other assets used for business. The policies may also exclude or curtail business-related liabilities from falls, injuries, or accidents.

Most organizations can simply extend their own business insurance to cover their telecommuters while they are telecommuting. But unless management makes a formal request, this insurance extension may not exist. And even if it does, will you be covered for that fall that takes place in your telecommuting office—but after hours?

For more information, contact the Insurance Information Institute in New York City at (212)669-9200, your employer's insurance office, or your own insurance agent. ■

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Online Services *continued from page 106*

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That's the retail side of STATS. The daytime business side of STATS disseminates sports statistics electronically to a variety of media companies including Capital Cities/ABC Inc.'s ESPN cable channel, *USA Today*, and the Associated Press. Last year STATS was ranked as the leading sports organization among America's five hundred fastest-growing private companies by *Inc.* magazine.

So attractive is the business that Paul Allen, cofounder of Microsoft, reportedly paid in the high six figures for a minority share of the company. STATS, in turn, will provide raw sports data to Allen's Starwave, which is scheduled to provide sports information to Ziff Communication's planned Interchange online service, set to appear Real Soon Now.

Content Rules

In the recent World Series, the Atlanta Braves pitching staff proved once again that good pitching will beat good hitting. Same goes for online services where major league content will beat a wizz-bang graphical interface almost every time.

Better to judge online services by the character of their content. It has nothing to do with the machine or host that you use. And on that count, if you love baseball, playing the Winter Game via STATS Online might be the most compelling thing you'll do with a modem this year.

Winter Game leagues will be forming through March so there's still plenty of time left to sign up your team. ■

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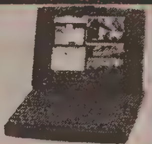

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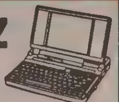

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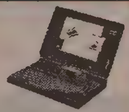

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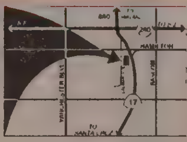

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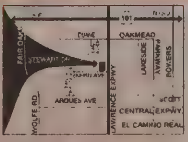

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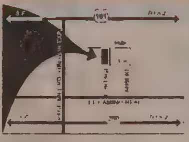

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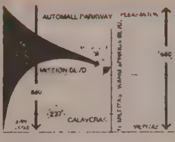

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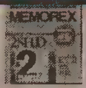

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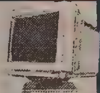

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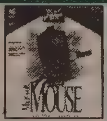

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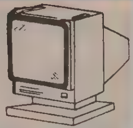

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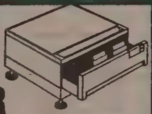

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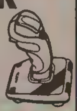

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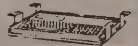

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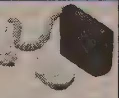

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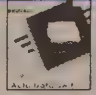

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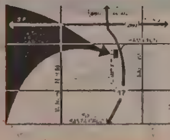

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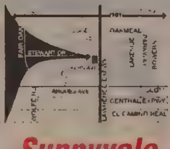

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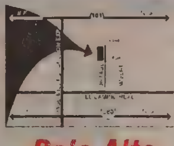

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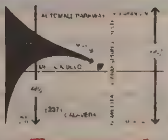

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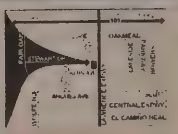

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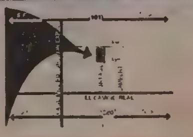

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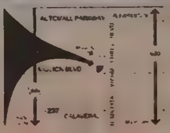

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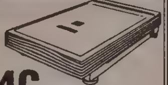

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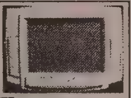

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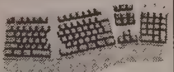

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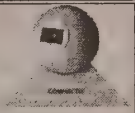

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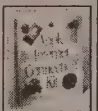

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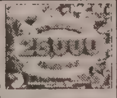

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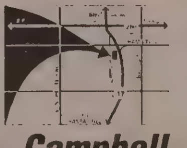

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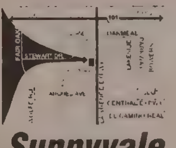

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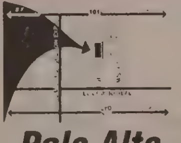

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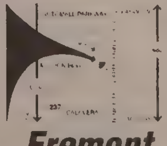

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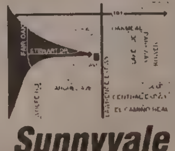

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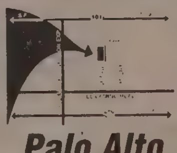

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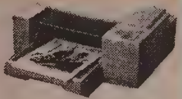

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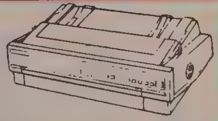

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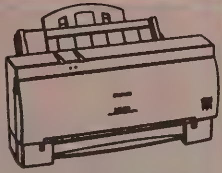

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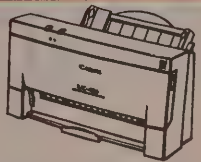

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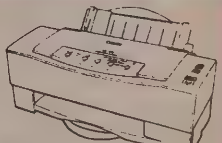

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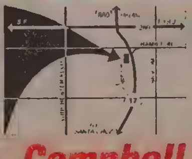

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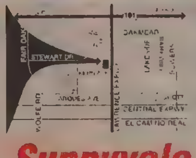

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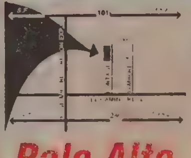

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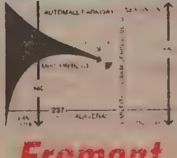

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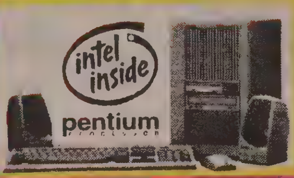
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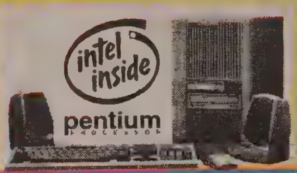
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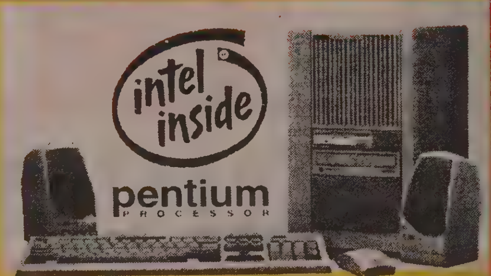
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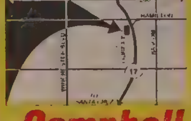
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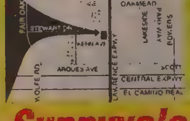
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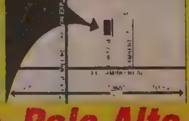

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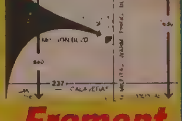
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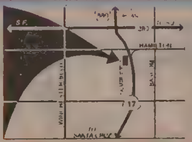

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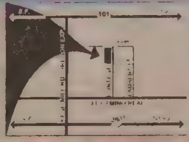

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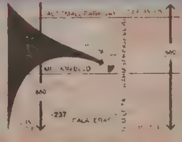

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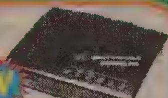

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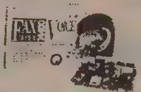

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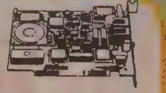

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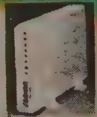

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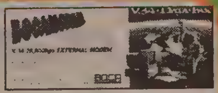

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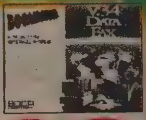

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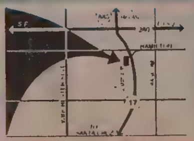

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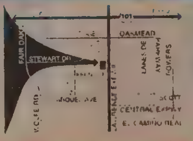

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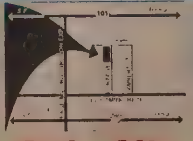

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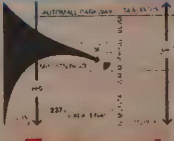

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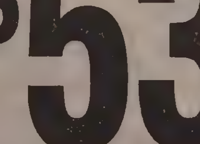

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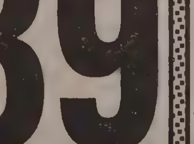

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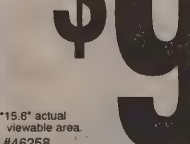

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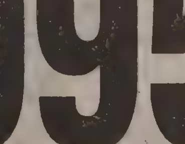

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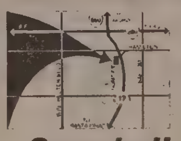

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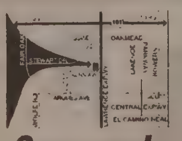

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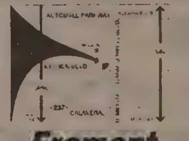

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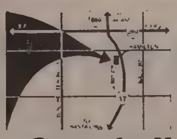

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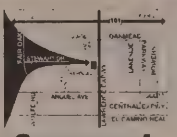

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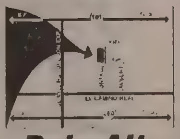

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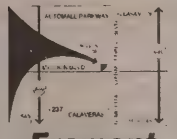

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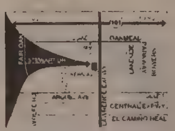

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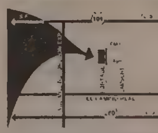

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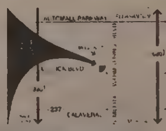

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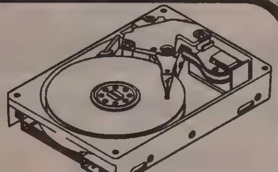

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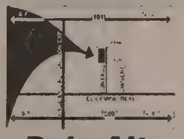

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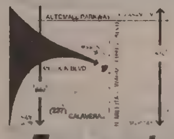

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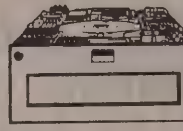

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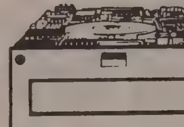

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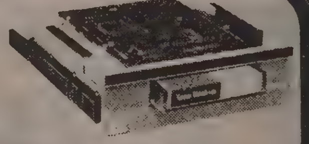

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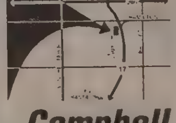

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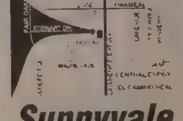

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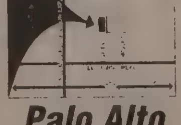

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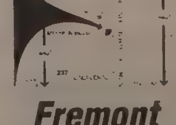

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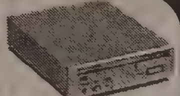

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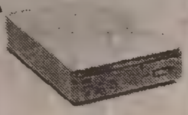

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- 256K Cache

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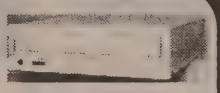

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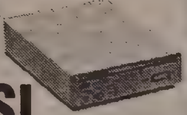

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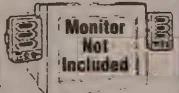

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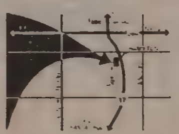

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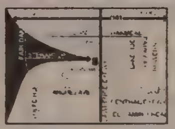

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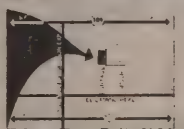

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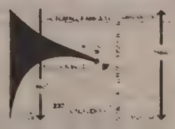

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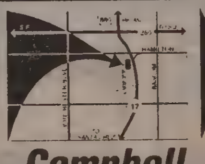

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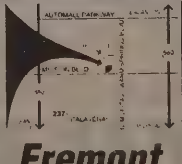

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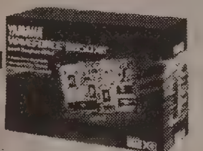

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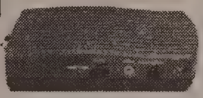

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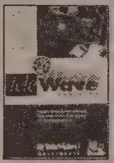

- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
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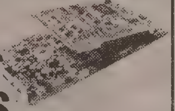

- Easy snap-on General MIDI and GS upgrade boards
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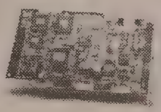

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- Enhanced EIDE CD-ROM Controller
- 128 Wavetable instument in 2MB ROM

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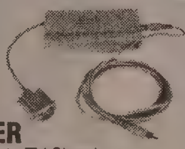

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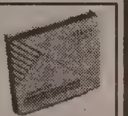

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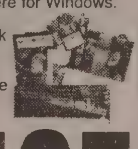

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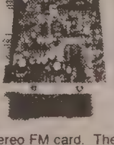

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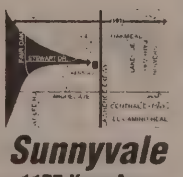

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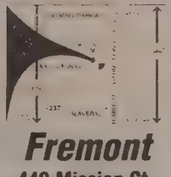

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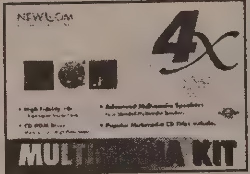
MULTIMEDIA

QUAD-SPEED MULTIMEDIA KIT



- Internal Quad-speed CD-ROM Drive - 600 Kbyte/sec transfer rate for exceptional multimedia performance
- 16-bit Sound Card - Sound Blaster PRO and WIndows Sound System compatible; 48 watts PMPO
- 3" Desktop Speakers - 3" full range speakers enhance the multimedia experience
- Installation Kit - Complete with all cables, hardware, manuals, and instructions required
- 10 CD Titles and Utilities Included

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Hitachi Internal Quad-speed CD-ROM Drive

- 220ms access time • 600KB per second data transfer rate
- 128KB cache memory
- Motorized Tray • Speakers
- ESS 16-Bit Sound Card with IDE CD-ROM Interface
- 10 CD Titles including Groliers Multimedia Encyclopedia 1995

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- 4X IDE CD-ROM Drive
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- 50 great Shareware games on CD • Microsoft 8 Game CD
- Edutainment CD Deluxe (Chessmaster, Mavis Beacon Teaches Typing, U.S. Atlas and World Atlas)
- 4 Watt Stereo Speakers.

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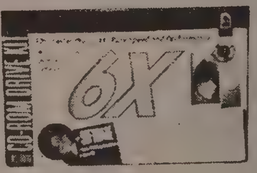
TURTLE BEACH SYSTEMS

6-SPEED MULTIMEDIA KIT



- 6X CD-ROM drive (IDE)–195ms Access Speed
- 900 KB Transfer Rate and up to 256 KB Buffer
- 16 Bit Sound Card, Wavetable Synthesizer Upgradable
- Sound Blaster™ Compatible
- Windows95 Compatible
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- Includes large variety of games and other software

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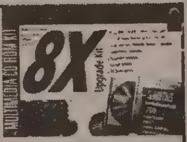

- 8X CD-ROM drive (IDE)-195ms Access Speed
- 1200 KB Transfer Rate and up to 256 KB Buffer
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- Sound Blaster™compatible
- Windows 95 compatible
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MULTIMEDIA KIT 8000

Super fast eight-speed CD-ROM drive with 1,200KB/second transfer rate and 240ms access time • 16-bit, 1MB wavetable Diamond sound card with 3D sound support • Plug &Play ready for Windows 95 • 5 hot software titles including Myst™ Magic Carpet™, Rebel Assault™, Sim City 2000™, and Compton's Interactive Encyclopedia™ 1996 • Yamaha stereo speakers • Six additional software utilities for sound recording, editing and playback capabilities Several tools for installation ease.

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CREATIVE LABS, INC.

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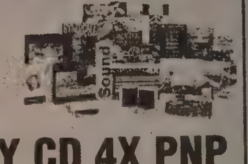

- 16-bit stereo sound
- Plug-and-play compatible for easy installation
- Upgradable to wave table synthesis with Wave Blaster™II
- Microphone, MIDI interface
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- Fast data access of 250 ms or better
- Stereo speakers
- Many software titles

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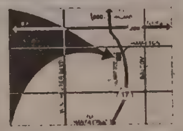

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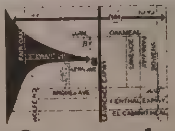

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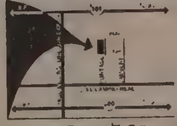

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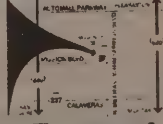

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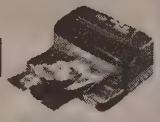

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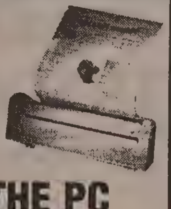

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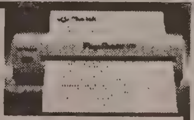

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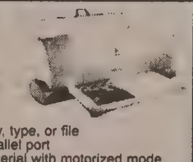

- Provides document management, full color and flatbed versatility in a compact desktop sheetfed scanner
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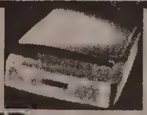

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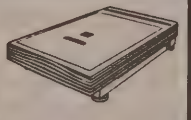

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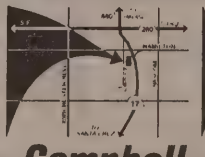

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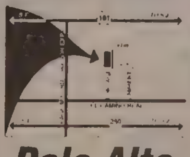

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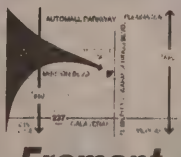

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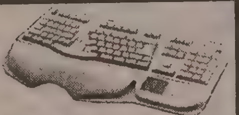

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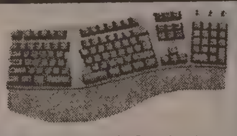

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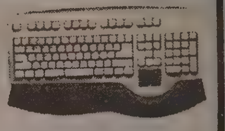

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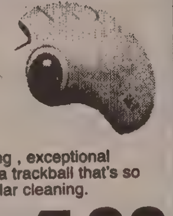

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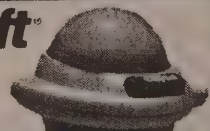

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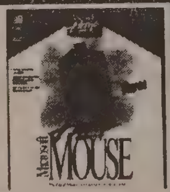

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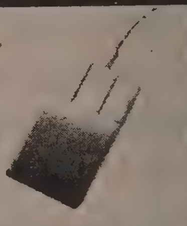

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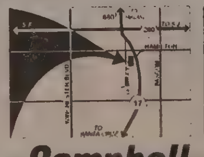

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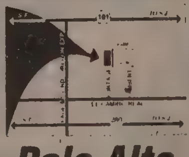

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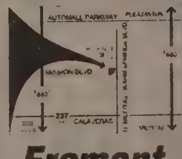

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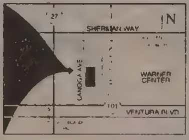

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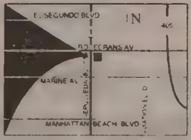

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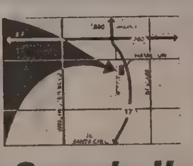

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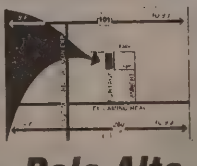

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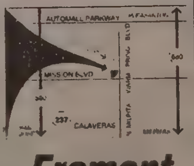

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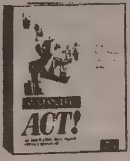

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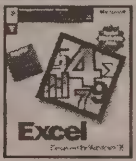

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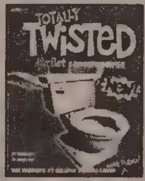

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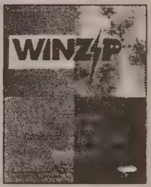

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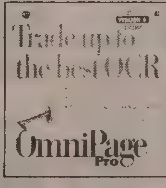

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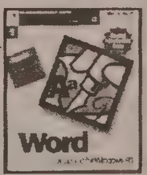

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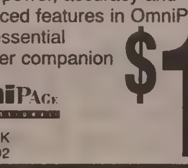

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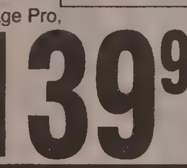

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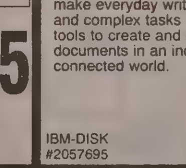

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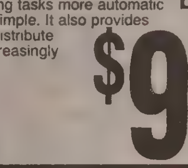

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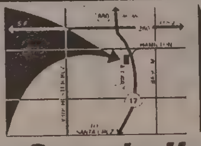

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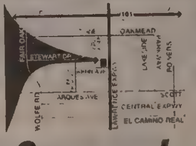

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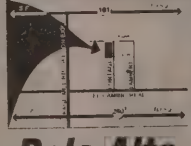

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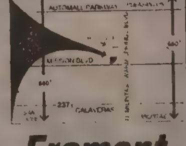

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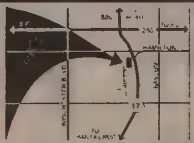

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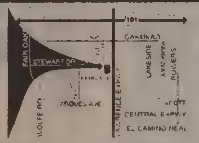

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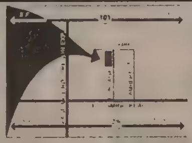

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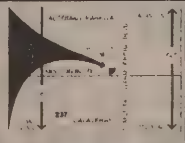

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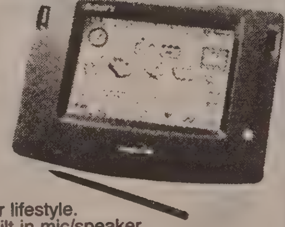

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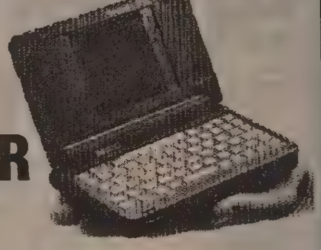

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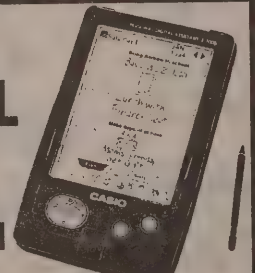

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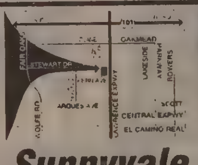

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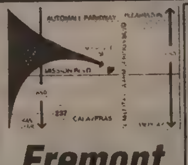

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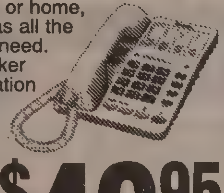
OFFICE PHONES

Panasonic

SPEAKERPHONE



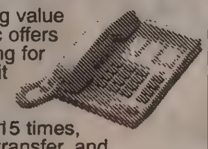
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

SPEAKERPHONE



This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59.95

Model KX-T2355
#1287186

Panasonic

TWO LINE SPEAKERPHONE

A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, separate ring switches for each line, and a local mode function. Now only...

$69.95

Model KX-T3110
#1505313

900MHz EXTENDED RANGE CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

MODEL KX-T9500
#1948839

Panasonic

900MHz PALM-SIZED CORDLESS PHONE WITH ALL DIGITAL ANSWERING MACHINE

Panasonic's highly anticipated 900MHz cordless phone with all digital answering machine is finally here and it was well worth the wait! It's compact base and palm-sized handset make this the perfect addition to any home or office. Features include 10 number memory, 30 channel AutoScan, 3 personal mailboxes, 2-way/memo recording, intercom with 2-way paging, pager call, message scan (scans the first few seconds of each message), and much more. Now just...

$329

MODEL KX-T9550
#2068220

FAX MACHINES

Panasonic

FAX MACHINE WITH PAPER CUTTER AND SPEAKERPHONE

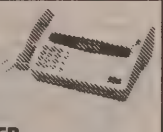
Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale. super thermal paper compatible. paper curl reduction, 164' paper roll capacity. 15 page document feeder. distinctive ring. delayed transmission. paper save mode, telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing. and much more. All for just...

$279

Model KX-F550
#1944271

Panasonic

FAX MACHINE WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE



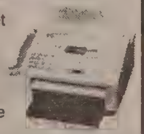
Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$344.98

Model KX-F750
#1944282

Panasonic

PLAIN PAPER FAX



From the new line-up of Panasonic fax machines comes this fully-featured unit with 250 sheet paper capacity and adjustable letter/legal tray, a 15 page document feeder, 64 level halftones, reduction/enlargement copier functions, hands-free speakerphone, 60 number speed dialer, activity reporting, handset volume control, and a whole lot more! Now just...

$429

Model KX-F1000
#2068275

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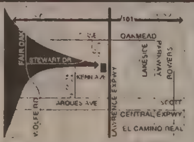

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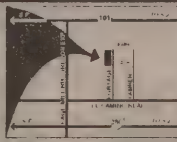

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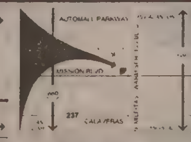
(415) 496-6044



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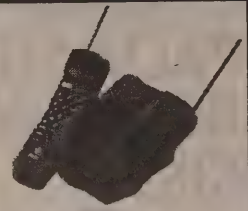


100 CHANNEL AUTO SCAN 900 MHz CORDLESS PHONE

By combining 100 channel auto scan (which allows the phone to lock-on-to the channel that is getting the clearest signal) and 900 MHz crystal clear technology (for improved clarity and extended range), GE has developed the ultimate cordless phone! Other features include 10 number memory, page/find from base to handset, handset volume control, distinctive ring, and more. An excellent value at....

$\$149^{99}$

MODEL 2-9910 #1923425

uniden

40 CHANNEL 900MHz CORDLESS PHONE

Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$\$148^{99}$

MODEL EXP-901
#1965005

SONY.

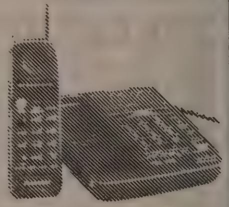
40 CHANNEL 900 MHz CORDLESS SPEAKERPHONE

By combining 900MHz Enhanced Reception with a 40 Channel Auto Scan system, Sony has designed a cordless phone that not only provides clearer transmission with less noise and interference than conventional 46 to 49 MHz cordless phones, but also gives you enhanced channel selection resulting in greater flexibility if you encounter interference during a call. With 2-Way Paging/Intercom, Base Speakerphone, 3-Way Conversation, 20 number memory, last number redial, flash, and more. Sony has designed the perfect cordless phone for the home or office at only...

$\$189^{99}$

MODEL SPP-ER1
#1839009

Panasonic



900MHz CORDLESS DUAL KEYPAD SPEAKERPHONE

This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

$\$239^{97}$

MODEL KX-T9520
#2068219

AT&T

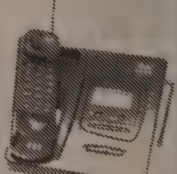
DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

AT&T, the leader in digital telephone technology once again leads the way into the future with the introduction of this 900MHz cordless phone. By operating at the 900 MHz frequency range rather than the conventional 46 to 49 MHz range, this AT&T cordless phone will provide clearer transmission with less noise and interference from other electronic devices, as well as extended range performance! Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only...

$\$229^{97}$

MODEL 9120 #1853261

VTECH



DIGITAL 900MHz CORDLESS PHONE
WITH 30 MINUTE ALL DIGITAL ANSWERING MACHINE

If you want premium performance in a cordless phone look no further than this digital 900MHz Cordless phone with 30 minute digital recording capability and 4 programmable voice mailboxes! Beside the extended range and improved clarity over traditional 49Mhz cordless phones, this model also offers handset volume control,10 number memory, low battery and out-of -range indicator, one-way paging, programmable ring, mute, flash, as well as, message skip and repeat (for immediate access to the next or previous message without having to wait for a tape to rewind or fast forward), and a whole lot more! An excellent value at...

$\$299$

MODEL 900i #2072021

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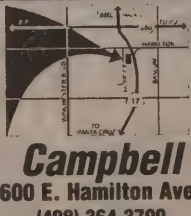

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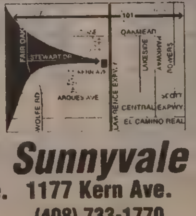

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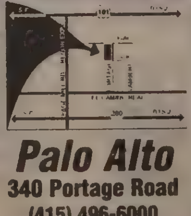

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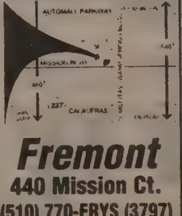

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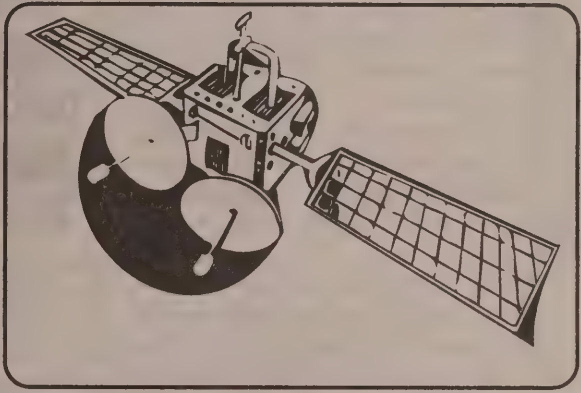

DIRECTV

JUST A SAMPLE OF WHAT'S AVAILABLE!

Discovery
ESPN
TNT
C-SPAN
CARTOON NETWORK
TRIO
TNN
CNN INTERNATIONAL
CNBC
The Disney Channel
COURT TV
Touchstone Pictures
USA NETWORK
CNN
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TBS
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COLUMBIA PICTURES
TRISTAR PICTURES
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3 SHOWTIME CHANNELS
2 "THE MOVIE" CHANNELS
3 CINEMAX CHANNELS
AND MORE

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MTV MUSIC TELEVISION
SHOWTIME EAST WEST
SHOWTIME 2
VH1
THE MOVIE CHANNEL
Multi Channel Cinemax
ALL NEWS CHANNEL
COMEDY CENTRAL
LIFETIME
FLIX
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DIGITAL SATELLITE SYSTEM (DSS) DISH AND RECEIVER

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$598

MODEL DS-1120WR
#1942578

SONY.

DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER

Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give an outstanding home theatre experience. **Other features include Sony's signalseeker LED** for easy install and a universal remote.*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

$647

MODEL SAS-BS1
#2026112

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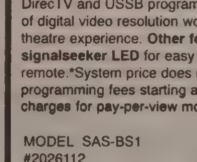

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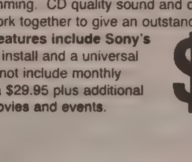

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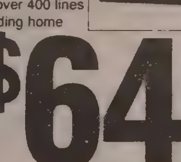

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Home Page Structure & Design

continued from page 112

page to between five and nine. The number represents the maximum size of a "set" that the average human mind can grasp and process at one time.

Of course, if the options are tightly organized, it might be possible to have more. For example, an index listing could have all twenty-six letters of the alphabet, if only because people are well trained to recognize and use this set of options.

Most designers tend to organize their Web spaces in some form of hierarchy, with the first page established as an entry point, typically providing some kind of clues to the contents behind it.

At first, it's easier simply to create a long list of choices, but for user convenience and greater appreciation of your content, it's far better to group the underlying content and make the choices available in a way that reflects those groups.

WITHIN THE WEB'S OPEN, COLLABORATIVE, AND DYNAMIC HYPERMEDIA SYSTEM, SEARCHERS CAN EASILY GET SIDETRACKED OR LOST, WHILE BROWSERS CAN EASILY SPEND HOURS AND FIND VERY LITTLE OF INTEREST.

* * *

Think of a newspaper. It has sections. Perhaps those sections are listed on the front page of the first section. The front page of each section has information about what's inside. And inside each section, stories and pictures and graphics often refer to other elements within the same section, and less often, to stories in other sections.

This sort of organizational structure, while a bit more complex for the Web space designer, has been proven over the years to be acceptable and comfortable to viewers/readers.

In any case, the main goal is to move people from the entry page to underlying pages before you give them a detailed list of options and the bulk of the content they seek.

As many researchers have noted, it's not so important to conserve disk space or reduce the total number of files, as long as your Web space promotes a high degree of user satisfaction.

In the future, page designers may find it *de rigeur* to offer two or three different views of the same information, as well as to offer guided tours of their information that reflects the paths most traveled. ■

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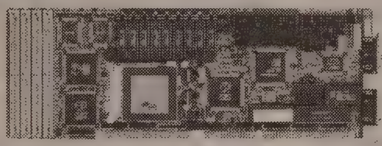

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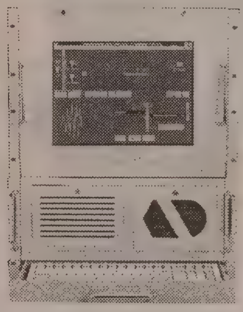

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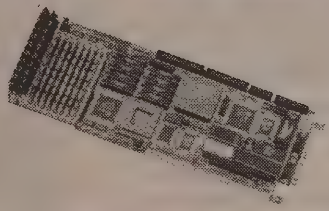

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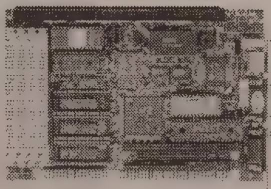

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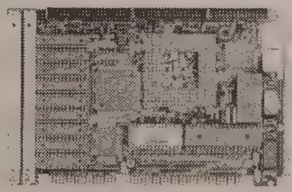
- AMI BIOS, 256K Cache
- Built-in 2xIDE, FDD, 2S & 1P
- Watchdog timer 0.5-5 sec.
- Onboard Keyboard & Ext Power
- Dimensions 185x122mm



AP-300A AIO 386 SX SBC

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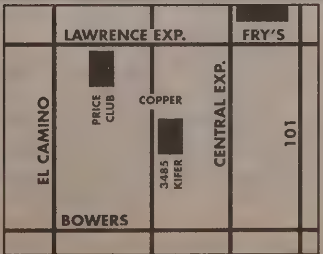

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Prices subject to change w/o notice, not responsible for typographic errors.

Web Page Listings

continued from page 120

Tubz *http://www.opendoor.com/Tubz/TubzHmPage.html* The largest selection of jetted and non-jetted bathtubs on the West Coast. [Exp. #149.]

Wooden Castle Craftsman *http://www.woodencastle.com/* Custom-drawn blueprints and material quantity estimates for do-it-yourselfers planning decks, gazebos, additions, and remodeling. [Exp. #147.]

The World Of Robert Raikes Collectibles *http://www.UrsaMajor.com/menu.htm* Color photos and interactive text describing the Robert Raikes Collectibles, teddy bears, and other gifts. [Exp. #148.]

Zap Gotcha Knife Speed Holster *http://www.zapgotcha.com/* Knife Belt—world's fastest, opens instantly. Survival, weapons, hunting, camping, fishing, hiking, guns, sports, gifts. [Exp. #149.]

FINANCIAL/REAL ESTATE SERVICES

Ameristock Mutual Fund *http://www.ameristock.com/* No-load, value based, domestic stock fund that invests in large-cap. companies. Original research, NAVs, and risk questionnaire. [Exp. #.148]

Bay Area Real Estate *http://ourworld.compuserve.com/Homepages/Cesar_Teixeira* Bay Area Real Estate listing of properties arranged by cites. [Exp. #149.]

Coldwell Banker *http://www.RWF2000.com/barry.html* Real estate broker for SF Peninsula area specializing in homes and small investment properties. Also specializing in church-owned properties in four-county area. [Exp. #147.]

International Property *http://www.cruzio.com/~property/* An international real estate consultant working to match people with companies or property. [Exp. #148.]

Landmark Home Loans *http://www.4loans.com/* Loan brokerage service provides info on purchase and refinance loans and real estate terms. [Exp. #149.]

Prudential Insurance Company *http://www.prudential.com/* Designed to help visitors address a variety of personal financial needs, from determining their retirement and insurance needs to buying or selling a home to funding a college education. [Exp. #149.]

Ross And Associates, Inc. *http://miamirealestate.com/ross/* Miami and South Florida residential and commercial listings for anyone wishing to buy, sell, rent, or lease. [Exp. #147.]

Smart Real Estate Investor *http://www.webcom.com/~smartrei/* Fast, comprehensive program for evaluation of all rental/income properties. Download working model. [Exp. #148.]

Stock Data Corp. *http://stockdata.inter.net/stockdata/* In conjunction with this new home page, Stock Data is also starting a service that will offer daily delivery of stock quotes via email. [Exp. #149.]

LEGAL SERVICES

Attorneys Online *http://www.attyonline@attorneys-on-line.com/* Licensed attorneys answer your legal questions online within 72 hours. Fee is $15 per month. [Exp. #149.]

Commercial Law League Of America *http://bankrupt.com/clla/clla.html* Information for those interested in bankruptcy or collections. CLLA, established in 1895, is the oldest creditor's rights organization. [Exp. #147.]

CyberLawyer *http://cyberlawyer.com/advice/* An Internet legal service that provides quality online legal advice from licensed attorneys for a modest fee. One query is just $24.95. [Exp. #147.]

Internet Lawyer *http://www.internetlawyer.com/* The Internet Lawyer, a monthly newsletter focusing on the practical use of the Internet by the legal industry, features online legal research and a newsstand of law-related online newsletters. [Exp. #149.]

EMPLOYMENT/ EDUCATION

Bay Area Gurdjieff Work Circles *http://users.lanminds.com/~tgr/* Groups that study the Fourth Way teachings of Gurdjieff/Ouspensky. Meeting dates/times listed. [Exp. #148.]

Browning Academy BobCats *http://www.vpp.com/browning/index.html* Using "mentor relationships," The Browning Academy offers a nationally accredited individual program where students work at their own pace and maximize the learning process. [Exp. #149.]

Computer Training Network *http://www.crctraining.com/ctn/* CTN lists computer instructor and training companies by category, product, and region. Help for companies to upgrade emplyees' skills. [Exp. #147.]

Favela! *http://www.favela.org* Favela! is a modern agora—an interactive learning tool, a means of dissemination of censured information, a spectacle for the eye working with the mind. [Exp. #148.]

Palo Alto Montessori School *http://www.slip.net/~jamila/Pams/* Preschool and child care facility established to develop the child to his/her full potential. [Exp. #148.]

RESULTS Recruiting *http://www.resultsr.com/* Recruiting company (headhunters) specializing in employer-paid searches and placements for EDA and related industries. [Exp. #148.]

System Partners' Contract Opportunities *http://www.syspart.com/* A listing of challenging contract consulting opportunities in the Bay Area and New England. [Exp. #149.]

West Coast Manufacturing *http://www.gumballs.com/vending/* This site is geared toward individuals and businesses that want to earn extra income with minimal investment and little effort. [Exp. #148.]

ORGANIZATIONS/ PUBLICATIONS

Alternative Family Project *http://www.sfsu.edu/~counsel/* Provides affordable family therapy to San Francisco Bay Area families with gay, lesbian, bisexual, or transgendered members. [Exp. #147.]

American Cancer Society *http://www.ca.cancer.org/* The American Cancer Society will debut the Web site launch with a new tobacco control campaign, the "Great American SmokeScreen," aimed at young people ages 9–15. [Exp. #148.]

American Civil War Association *http://199.88.68.204/acwa* Civil War reenacting organization in California. Battles, living history and display of life during the 1860s. [Exp. #148.]

American Film Institute *http://ww.afionline.org/* AFI's Web site provides users with information about the institute's programs and activities, including the AFI Conservatory. [Exp. #147.]

Arachnoid Writers *http://www.vena.com/arachnoid/* Authors and writers assemble to become booksellers for their own works. [Exp. #149.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #148.]

The Bionomics Institute *http://www.bionomics.org/* Changing the paradigm from economy-as-machine to economy-as-ecosystem. [Exp. #147.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/* Santa Clara County Chapter operates a free referral line to refer elderly residents who can't live alone but are not ready for a nursing home. [Exp. #148.]

Catholic Charities Web Pages *http://ccsj.org/* Enhancing the quality of life for all members of the community, especially the poor. [Exp. #149.]

Center For Communication Programs (CCP) *http://www. charm.net/~ccp/* Project of Johns Hopkins University School of Public Health. Publisher of "Population Reports" and producer of POPLINE bibliographic database. [Exp. #148.]

Center For Creative Growth *http://www.geopages.com/SunsetStrip/1284/* Providing counseling and education for growth and recovery. Therapists trained by the John Bradshaw Center in the Bay area. [Exp. #148.]

Central News Service *http://users.aol.com/cns1111/2.html* News from the underground. Analysis of news to help distinguish self-interest of institutions from actual current events. Nonprofit community orientation. [Exp. #147.]

Children's Animated Television *http://www1.usa1.com/~furball/* A progressive nonprofit organization that produces educational videos for children and teens about today's social issues. [Exp. #147.]

Church Of Scientology Of Los Angeles *http://www.theta.com/csla/* History of the Los Angeles Church, celebrity comments, photos, what is Scientology?, community, and more. [Exp. #147.]

Cigar World *http:// Cigarworld.com/* Entertaining commentary, casual exchanges, and cigar news—an online complement to a good smoke. [Exp. #148.]

Community United Against Violence (CUAV) *http://www.xq.com/cuav/index.html* Nonprofit serving survivors of anti-gay/lesbian/bisexual/transgender hate-motivated violence and same-sex domestic violence. Prevention and counseling. [Exp. #149.]

Croatian Mother's Web Site *http://www.unm.edu/~vuksan/mario/appeal.html* [Exp. #148.]

Cub Scout Pack 813 *http://www.ccnet.com/~sparks/* A resource link for Cub Scout requirements. Also Pack 813 awards, committee members, and pack plans. [Exp. #148.]

DEC User Group *http://www.decus.org/* National DEC User Group. [Exp. #148.]

DharmaNet Electronic Files Archive *http://sunsite.unc.edu/dharma.defa.html* Online clearinghouse and library for Buddhist resources, online and off. [Exp. #147.]

Earthquake Information From USGS, Menlo Park *http://quake.wr.usgs.gov/* Current quake data, regional studies, info on prediction experiments, projected shaking, and damage maps. [Exp. #147.]

Enchanted E-Books *http://www.e-books.com/* We sell electronic books, classics and contemporary original works, in Windows Help Text format. We also provide publishing services for writers and other people. [Exp. #148.]

Guerrilla Girls Headquarters *http://www.voyagerco.com/gg* This site serves as both an archive of their past attacks and a homebase for new criticisms of the art establishment and the emerging realm of interactive media and communication. [Exp. #148.]

Holistic Dimension *http://www.deltanet.com/users/angelh/INDEX01.htm* A new online magazine that provides an unbiased, uncensored view of today's affairs. [Exp. #148.]

Intellectual Property Creators *http://www.best.com/~ipc/* An organization of seasoned inventors interested in patent enforcement and public policy issues. Fifty-page Web site on patent and other inventor issues. [Exp. #148.]

Irish Network Of Northern California *http://reality.sgi.com/csp/IrishNet/* For those interested in all things Irish; business, social, cultural events in the Bay Area. [Exp. #148.]

Islam And Islamic Books *http://users.aol.com/hineaf/index.htm* The Islamic Center of Sacramento's WWW page offers information on Islam and Muslims. [Exp. #149.]

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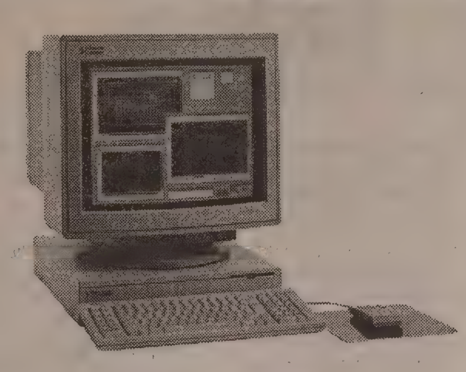
SS20/61	$7375
SS20/51	$6965
SS5/85	$4730
Motif 1.2.3/2.0	$199

PC-To-UNIX Connectivity

X-Kit/DOS (PC/Link+32-bit XServer for DOS)	$150
X-Kit/NFS (A WINSOCK compliant TCP/IP, NFS, XServer)	195
Frontier Super TCP/IP For Windows	225
Novell Lanworkplace	305
Novell Lanworkgroup 5 User	1110
SUNSELECT PC/NFS DOS/WINDOWS	325
NetManage Chameleon NFS For Windows	375
AGE Xoftware/32 for Windows	285
NCD PC-XWare for Windows.	470



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• PENTIUM-100	$3385	$3620
• PENTIUM-120	$3450	$3685
• PENTIUM-133	$3655	$3890

UNIX FOR PC

Yggdrasil plug and play Linux	$29
Yggdrasil Linux Bible	32
TransAmerictech Linus/BSD	29
Prime Time Freeware for UNIX	55
Prime Time Texcetera	50
InfoMagic Internet (TCP/IP,SNMP,FTP,PPP)	18
InfoMagic Source Code (4.3 BSD,MACH,GNU)	18
InfoMagic UNIX (386BSD,NetBSD,FreeBSD)	18
Motif for Linux	85

SunSoft (Interactive) UNIX:

Solaris 2.4 Desktop for X86	$565
Solaris 2.4 Workgroup Server Lite	1285
Solaris 2.4 Enterprise Server	1590
Solaris 2.4 For X86 ProWorks C	925
Solaris 2.4 For X86 ProWorks C++	1390
Solaris 2.5 Desktop for X86	615
Solaris 2.5 Workgroup Server	1945

SCO UNIX (ODT):

SCO OpenServer Desktop 5.0 Single CD	$615
SCO OpenServer Develop Sys 5.0	$615
SCO OpenServer Enterprise 5.0	$990
SCO UNIX (2 User)	415
SCO UNIX (16 User)	905
SCO UNIX Development System	905
SCO TCP/IP for SCO UNIX	260
SCO NFS for SCO UNIX	625
UnixWare Personal Edition (CD-ROM)	$345
UnixWare Software Development Kit & Utilities	115
UnixWare Application Server	1295
UnixWare Server Merge for Windows	295
UnixWare C2 Auditing	155
UnixWare On Line Data Manager	1755
* UnixWare Personal Edition + SDK	435

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NE-5100 PCI	107
10 BaseT 8/16 Port Hub	125/279
SMC 16-bit (Coax/10BaseT)	105
Pocket LAN Card	99
3 Com 3C509 Ethernet III (Combo)	105
Intel Ether Express (Combo)	115
Cisco Router	CALL
Ascend Pipeline 25/50/400	CALL
Ascend Multiband	CALL
AVM ISDN Adapter/Router	CALL
Motorola Ext ISDN Modem w/NTI	290

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- •Logitech Mouseman Serial Mouse
- •FCC Class B
- •16 MB RAM
- •Mid Tower Case w/250W UL PS
- •Quad Speed CD-ROM Drive
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- •15" ADI NI SVGA Monitor
- •Keytronics Keyboards

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DEC ALPHA 266 MHz Upgradable to 300 MHz	6965
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DUAL PENTIUM®/90 MHz (EISA PCI)	2495
DUAL PENTIUM®/100 MHz (ISA PCI)	2405
DUAL PENTIUM®/90 MHz (ISA PCI)	2365
PENTIUM® PRO/P6/150 MHz	3935
PENTIUM®/166 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	2469
PENTIUM®/133 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	2205
PENTIUM®/120 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	2025
PENTIUM®/100 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	1905
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Upgrade to SCSI System (Controller, HD, CD-ROM)	130
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2. MS Windows 3.11	49
3. MS Windows 95	99
4. MS Windows NT Station	250
5. MS Windows NT Server	575
6. MS Office Professional	325
7. OS/2 Warp	74
8. Linux	15
9. Unix Ware PE	300
10. Solaris 2.4	475
11. SCO OpenServer Desktop	595
12. X-Kit/NFS	150
13. NextStep	575

External SCSI Device for SPARC/PC/MAC:

1/2 GB SCSI HD	$375/725
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250MB 1/4" SCSI Tape Drive	375
500MB 1/4" SCSI Tape Drive	530
1 GB 1/4" SCSI Tape Drive	725
2 GB 4mm DAT Drive	850
4-8 GB 4mm DAT Drive	975
HP 8-16 GB 4mm DAT Drive	1195
ExaByte 2.5 GB 8mm Tape Dr.	1450
ExaByte 5 GB 8mm Tape Dr.	2130

SCSI Controller:

Adaptec 1542CF (ISA)	$180
Adaptec 2842 (VLB)	220
Adaptec 2940C (PCI)	220
Adaptec 2940W W-SCSI (PCI)	255
Buslogic BT-445C (VLB)	205
Buslogic BT-946C (PCI)	185
Buslogic BT-946C W-SCSI	240
DPT 2022/95 (EISA)	340
DPT 2024/90 (PCI)	280
DPT Caching Module	400
NCR 53C810 (PCI)	60
NCR 53C825 W-SCSI (PCI)	130

Multimedia

CD-ROMS

NEC 4X (SCSI) w/2 CD's	$229
NEC 6X (SCSI)	350
Mitsumi/Toshiba 4X (IDE)	150
Toshiba 3701-B 4X SCSI	325
Toshiba 5301 4X SCSI	215
Sanyo 4X CD-ROM	169
CD-ROM Ext. Kit	70

SOUND CARDS

Sound Blaster 16	$80
Sound Blaster 16 ASP	135
Sound Blaster SCSI II	112
Sound Blaster SCSI II/ASP	157
Sound Blaster AWE 32	152
80 Watts Stereo Speakers	40
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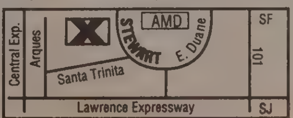

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Web Page Listings *continued...*

!jimbo.Land! *http://dnai.com/jimboland/* Center for lesbian and gay culture and community. [Exp. #148.]

The Kinte Space *http://users.aol.com/Wilhite213/kinte.html* A quasi-monthly publication of literary presentations downloadable as free multimedia PC applications. [Exp. #147.]

Lawrence Livermore National Laboratory Test Site *http://www.llnl.gov/remoteTEST* The new home page for one of the nation's premier science facilities is packed with digital videos and photos to provide an eye-opening excursion into the sometimes dramatic world of scientific experimentation. [Exp. #148.]

Make A Wish Foundation *http://www.wish.org/* Helping terminally ill children live a dream. You can help, find out how. [Exp. #148.]

The Medical Marketing Association *http://www.mmanet.org/* MMA is the leading organization providing personal, professional, and educational growth opportunities for people interested in the marketing of medical products and services. [Exp. #148.]

N.A.A.F.E.T.E.E. *http://www.ijs.com/naafetee/* North American Association For Exports To Eastern Europe is an association of exporters and importers to/from Eastern Europe. [Exp. #148.]

National Center For Employee Ownership *http://www.esop.org/~nceo* Information on employee stock ownership plans (ESOPs) and other forms of employee ownership. [Exp. #148.]

The New Reality *http://www.globaldrum.com/sopdu* This site introduces a whole new reality on spirituality. The New Reality is a nonproft corporation organized to distribute message of freedom to all who can hear. [Exp. #148.]

Paper Publishing Company *http://www.papermag.com/* A virtual Downtown infused with the PAPER sensibility that has revolutionized pop culture reporting in print. [Exp. #148.]

PC User's Group Of The Redwoods, Santa Rosa, CA *http://www.sonic.net/pcugr/* Membership information, announcements, calendar of events, SIGs, other user groups in Northern CA and the world. [Exp. #148.]

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #148.]

Republican National Committee *http://www.rnc.org/* Depicting a block from a typical American town, there are thousands of things for a visitor to do on the RNC homepage. [Exp. #147.]

San Francisco SPCA *http://www.sfspca.org/* Inspect pictures and descriptions of cats and dogs currently available for adoption. [Exp. #148.]

San Jose Baha'i Community *http://www.ccnet.com/~nep/bahai/sjca/* Local and international information on the Baha'i faith. Searchable Baha'i Holy texts. [Exp. #148.]

San Jose—The Capital Of Silicon Valley *http://www.best.com/~mentorms/sanjose.html* A hierarchical index and directory to over 3060 Web sites about San Jose, California, Silicon Valley, and the San Francisco Bay Area. [Exp. #149.]

Scholarship Select *http://www.coolware.com/bullseye/* Documents eighty thousand scholarships on Windows-based CD-ROM. [Exp. #148.]

SCOR-Net *http://www.scor-net.com/* The Small Corporate Offering Registration Network. Dedicated to capital formation issues for small businesses. [Exp. #147.]

Sequoia High School Alumni Association Online *http://www.belmont.gov/orgs/alumni/shsaa.html* Alumni information for three SF Peninsula high schools: Sequoia, San Carlos, and Ravenswood. [Exp. #148.]

Society For Technical Communication, San Francisco Chapter *http://stc.org/* International nonprofit organization for technical writers and editors: meetings, newsletter, job leads, competition, annual conferences. [Exp. #147.]

Stanford Asian American Activities Center *http://www.leland.stanford.edu/group/a3c* A resource for anybody interested in Asian American topics. [Exp. #148.]

Teen Help *http://www.vpp.com/teenhelp/* Teen Help has resources or can refer parents to resources such as: support groups, Parent and teen retreats, short-term crisis centers, treatment programs, and more. [Exp. #149.]

Telecommuting, Teleworking, And Alternative Officing *http://www. gilgordon.com* Global resource page presents latest trends, programs and research related to the flexible workplace. [Exp. #149.]

Triumph Prophetic Ministries *http://www.register.com/triumph/* Features a free bi-monthly magazine and Christian articles and tapes. Broadcast schedules also listed. [Exp. #148.]

US Geological Survey *http://www.usgs.gov/* Home page for USGS, with access to geologic, hydrologic, and mapping info. [Exp. #147.]

Vegan Action *http://www.vegan.org/* Nonprofit educational organization enhancing public awareness about the many benefits of a vegan lifestyle. Info, lists, health links, and more. [Exp. #149.]

VirtualGuide *http://www.virtualguide.com/* Hot links related to health, education, art, business, and fun. Great jumping off place. [Exp. #148.]

Windows OnLine *http://www.cris.com/wol/* Home of Windows OnLine (BBS), which publishes the *WinOnLine Review* (online magazine)—commercial and shareware reviews. [Exp. #148.]

ODDS & ENDS

100 CC *http://www.jodi.org/100cc/* Binhex, Commando Solo, live Cybersupremacist, General Surgeon news, CC Baklava Top 100, Betalab 2.0. [Exp. #147.]

555-1212.com *http://www.555-1212.com/* Pick an area code, then look it up. 800, 900, Global directories, too. [Exp. #148.]

A2ZBIZ Com *http://www.a2zbiz.com/~robyn10* Products and services offered, transplant information, Italian Alps skiing resort, links for searching other pages. [Exp. #149.]

Berkeley's People's Park *http://www.dnai.com/~hi_there/people's_park.html* An experiment in electronic democracy, this Web site lets you read about UC Berkeley plans for the Park and send email to City Council members. You can even submit a pledge to help buy People's Park from the University. [Exp. #149.]

Cichlid Research Home Page *http://garnet.berkeley.edu:2727* Information on the fish family Cichlidae, for both hobbyists and scientists. [Exp. #149.]

CyberKorea *http://165.113.175.2* Korean Web directory and information, short Korean lessons, shopping center, ads, and announcements. [Exp. #148.]

The Gasman *http://ourworld.compuserve.com/homepages/GASMAN* Everything you wanted to know about compressed gases—facts, figures, and usages for both yesterday and today. [Exp. #149.]

Good Doin's Holding Company *http://www.iac.co.jp/~gooddoin/* Provides information and services to help parents do a good job of self-care and child rearing. [Exp. #148.]

The Government Bidder's Weekly *http://www.gbw. com/calbids/* A weekly newsletter that lists local California government bidding opportunities. Hundreds of hot sales leads. [Exp. #147.]

Hungarian Milecentennary Celebration *http://exo.com/~fredh/honf.htm* 1100 years of statehood and celebration of the times, history, culture, and anthropology of Hungary. Also links to tourist information and related programs. [Exp. #148.]

Impotence Home Page *http://www.impotent.com/* Introduced by Pharmacia and Upjohn, Inc., this site is dedicated to raising awareness and understanding about mail impotence. [Exp. #149.]

Jeffe & Soeder *http://www.jeffe-soeder.com/* A marketing communications firm specializing in high-technology companies. See our online consultation. [Exp. #147.]

KSB Consulting, Inc. *http://www.ksb8.com/* Microsoft fall series seminars, shop at KSB CyberMall, advertise your services or products with us. [Exp. #147.]

Mr. Rabin Memorial Book *http://www.netking.com/* [Exp. #148.]

Rebecca Pack & Associates *http://www.value.net/execsol/~execsol.html* Pictures and information of missing children. Offers hot spot advice for small and large businesses. [Exp. #147.]

Shtetl *http://sunsite.unc.edu/yiddish/shtetl.html* An electronic multimedia collection of Yiddish texts, archives, bibliographies, artworks, songs, and other materials. [Exp. #148.]

PERSONAL HOME PAGES

Bali Travel *http://www.ccnet.com/!briscoe/* If you are interested in travel to Bali or music by the Cranberries, check this page out. [Exp. #149.]

Belligerence WEB Page *http://www.directnet.com/~fredm/planet.html* The Belligerence Connection. Graphic art, show times, and information. Download Belligerence sound clips. [Exp. #148.]

Bill Flinn's Home Page *http://users.aol.com/Gonzo13038* An ever-changing assortment of links to human resources research, aviation, and cool Web pages. [Exp. #148.]

Changes *http://www.icenine.com/changes/* Eclectic, evolutionary spirit: hints of the Haight Ashbury, pychedelic, and unusually beautiful. [Exp. #149.]

Colin's Home Page *http://www.hooked.net/users/spud/colin.htm* Colin's little piece of the Web. Lots of cool links to cool places. [Exp. #149.]

Crunchman *http://www.well.com/user/crunch/* Home page for John Draper, includes information on Web authoring services and lots more. [Exp. #148.]

Dan Kegel's ISDN Page *http://www.alumni.caltech.edu/~dank/isdn* Your first stop for ISDN info, whether you're a novice or expert. [Exp. #148.]

Ed's Web Place *http://www.netgate.net/~embier* Find interesting links to my favorite topics: scuba, movies, sports, send me email. [Exp. #147.]

Follow Your Heart: *http://www.earthlink.net/~ivanlove* Seeking love and spiritual peace? Check out the writings and philosophy of Ivan Hoffman. [Exp. #148.]

Gary Thomas Home Page *http://www.hotcity.com/~gthomas* A large collection of links for Windows 95 shareware and tips, fun stuff, Internet information, etc. [Exp. #149.]

Geek Girl *http://www.geekgirl.com.au/fenix/fenix.html* [Exp. #149.]

Greg Bulmash's Humor Page *http://www.earthlink.net/~gregoire/* A bi-weekly humor magazine/homepage with original work from Greg and others. [Exp. #148.]

Indojoe's Puff Center *http://www.westworld.com/~indojoe/indojoe.html* Links to game, hacking, phreaking, bombs, and related sites. Check out the "darker" side of cyberspace. [Exp. #148.]

Kerry Garrison's Home Page *http://www.delta.net/users/garrison* Links to Perl programming and Web development information, cool sites, daily newspaper. [Exp. #147.]

Magic Arcs' Web Page From Hell *http://users.aol.com/magicarc/private/index.html* Cool site with lots

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SYSTEM PACKAGES

486 VLB System

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C486DX4-100MHz	$ 589*
A486DX4-100MHz	$ 599*
A486DX4-120MHz	$ 629*
I486DX4-100MHz	$ 659*
C5x86-100Mhz	$ 689*

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- ✪ 256k Fast Cache Memory
- ✪ 4MB RAM Expandable to 32MB
- ✪ 1.44 Meg 3-1/2" Floppy Drive
- ✪ 850MB EIDE Hard Drive
- ✪ 2 Serial, 1 Parallel, 1 Game Ports
- ✪ 32-Bit VLB IDE Controller
- ✪ SVGA Windows Accel. VLB 1MB
- ✪ 101 Enhanced Keyboard
- ✪ Mini Tower Case w/230Watts PS
- ✪ Microsoft Compatible Serial Mouse
- ✪ Mouse & Keyboard Wrist Pads
- ✪ 486 CPU Heatsink & Fan

486 PCI System

TRUE CHOICE!

C486DX4-100MHz	$ 719*
A486DX4-100MHz	$ 739*
A486DX4-120MHz	$ 759*
I486DX4-100MHz	$ 739*
C5x86-100Mhz	$ 789*

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- ✪ 8MB RAM Expandable to 128MB
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- ✪ Enhanced PCI IDE Controller
- ✪ PCI SVGA w/1MB DRAM
- ✪ Mitsumi 101 Enhanced Keyboard
- ✪ Premium Mini Tower Case w/250W PS
- ✪ Logitech 2-Button Serial Mouse
- ✪ Mouse & Keyboard Wrist Pads
- ✪ 486 CPU Heatsink & Fan

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Pentium® 90MHz	$ Call*
Pentium® 100MHz	$ Call*
Pentium® 120MHz	$ Call
P-133,150,166MHz	$ Call

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- ✪ 2 (16550)Serial, 1 Parallel Ports
- ✪ Enhanced PCI IDE Controller
- ✪ ATI 64-bit PCI SVGA 1MB Built-In
- ✪ Mitsumi 101 Enhanced Keyboard
- ✪ Premium Mini Tower Case w/250W PS
- ✪ Logitech 2-button Serial Mouse
- ✪ Mouse & Keyboard Wrist Pads
- ✪ 586 CPU Heatsink & Fan

** Monitor Not Included w/System*

PARTS & ACCESSORIES

MOTHERBOARD

Biotech 486VLB (AMD120mhz/C5x86 compatible)	$88
Shuttle (UMC) 486PCI w/256K EIDE/IO	$109
486VLB (SIS, VIA chipset) w/256K (3V, 72-Pin)	$92
FIC 486PCI w/0K SCSI/IDE/IO (5V, 72-Pin)	$75
586 Triton PCI EIDE/IO w/256K + ATI 64 Built-In	$229
QDI Triton 586PCI EIDE/IO w/256K	$145
Intel Hendrix 586-60/66MHz w/SVGA EIDE/IO	$205
Intel Zappa Triton 586PCI w/256K	$199
Intel Endeavor 586PCI w/16-Bit SC (Pipeline Burst)	$Call
Intel Atlantis 586PCI w/16-Bit SC, ATI Mach 64 (PB)	$Call
ASUS Triton 586PCI w/256K (Pipeline Ready)	$189
ASUS Triton 586PCI w/256K Pipeline Burst SRAM	$235
ASUS 686PCI 256K w/i686 CPU	$Call

CPU

Cyrix 486DX4-100MHz (3.45V)	$65
Cyrix 5x86-100MHz	$99
Cyrix 5x86-120MHz	$Call
Cyrix 6x86-100MHz	$Call
AMD 486DX4-100MHz (3V)	$85
AMD 486DX4-120MHz (3V)	$92
Intel 486DX4-100MHz (3V)	$85
Intel P5-75MHz	$Call
Intel P5-90MHz	$Call
Intel P5-100MHz	$Call
Intel P5-120MHz	$Call
Intel P5-133MHz	$Call
Intel P5-150MHz	$Call
Intel P5-166MHz	$Call

MEMORY

1 x 9 - 70ns (3 chips/9 chips)	$31.95 / $34.95
4 x 9 - 70ns (9 chips) *(Best Buy)*	$114.95
1 x 32 - 70ns (72-pin) 4Mb	$Call
1 x 36 - 70ns (72-pin) 4Mb	$.Call
1 x 32 - 60ns (72-pin) 4Mb EDO	$Call
2 x 32 - 60ns (72-pin) 8Mb EDO	$Call
2 x 32 - 70ns (72-pin) 8Mb	$Call
2 x 36 - 70ns (72-pin) 8Mb	$Call
4 x 32 - 70ns (72-pin) 16Mb	$Call
4 x 36 - 70ns (72-pin) 16Mb	$Call
4 x 36 - 60ns (72-pin) 16Mb	$Call
8 x 36 - 60ns (72-pin) 32Mb	$Call

Video Memory Upgrade

256Kx4 DIP DRAM	$4.95
256Kx16 (60/70ns) DRAM	$14.95
256Kx8 (60/70ns) VRAM	$9.95
2MB Upgrade Module for Stealth 64 Video	$139.95

MONITOR

ADI 15" (1280x1024) .28 NI	$Call
ADI 5AP 17" (1280x1024) .26 NI	$729
GVC 14" (1024x768) .28 NI	$219
GVC 15" (1280x1024) .28 NI Digital	$315
GVC 17" (1280x1024) .28 NI Digital	$585
Hitachi SuperScan 15"	$369
Hitachi SuperScan 21" CM2110MU	$1699
KFC 14" .28 NI (1024x768)	$215
KFC 15" .28 NI (1280x1024) w/Digital	$345
KFC 17" .26 NI (1280x1024) w/Digital	$Call
MAG DX15Fe 15" .28 NI (1024x768) w/Digital	$375
MAG DX17F 17" .28 NI (1280x1024) w/Digital	$679
MAG MX17F 17" .26 NI (1600x1280) w/Digital	$859
NEC XE15 15" (1024x768) .28 NI 76Hz	$579
NEC XE17 17" (1024x768) .28 NI 76Hz	$999
NEC XP17 17" (1280x1024) .26 NI up to 76Hz	$1049
Nokia 449E 15" NI .28 (1280x1024) Digital	$429
Nokia 447L 17" NI .28 w/built-in spkrs Digital	$685
Samsung 17GLSI (1280x1024) Digital	$859
Shamrock 14" NI .28 (1024x768) Digital	$229
Shamrock 15" NI .28 (1280x1024) Digital	$315
Shamrock 17" NI .28 (1280x1024) Digital	$Call
Socos 17" NI .26 (1280x1024) Digital	$625
SONY 15SF-ii NI .25(1280 x 1024) Digital	$Call
SONY 17SF-ii NI .25(1280x1024) Digital	$Call
SONY 17SE (1600x1280) .25 NI Digital	$Call
ViewSonic 15ES (1024x768) .28 NI 76HzDigital	$375
ViewSonic 15G (1280x1024) .28 NI Digital	$425
ViewSonic 15GA (1280x1024) .28 NI 60Hz w/Speakers	$499
ViewSonic 17GA Multimedia Monitor	$739
ViewSonic 17GS (1280x1024) .27 NI 60Hz	$699
ViewSonic 21PS (1600x1280) .26 NI 60Hz	$Call

REMOVABLES

IOMega ZIP Drive 100MB Ext.	$199
SyQuest EZ-Drive Int/Ext. 3.5	$189/229
SyQuest 270MB Int/Ext. 3.5	$339/419
Fujitsu Rewritable/Removable 230MB Int.	$529/619
HP SCSI-2 Recordable CD Drive (4020i)	$1069
Sony SCSI-2 Recordable CD Drive (920)	$1399

***Please call for other External SCSI devices*

VIDEO CARDS

ISA VGA w/256K	$29
Windows Accelerator w/1MB (ISA/VLB/PCI)	$59
ET-4000 PCI 64-bit w/1MB DRAM (Made in USA)	$69
aLaris MATINEE *Fast* PCI Graphics &Full-Motion Video	$105
Stealth 64PCI w/1MB DRAM	$99
Stealth 64 Graphics 2001 Video PCI w/1MB DRAM	$115
Stealth 64 Video VLB/PCI w/2MB VRAM	$235/249
ORCHID Kelvin 64 VLB/PCI w/1MB DRAM	$79/89
ORCHID Farenheit 64 PCI w/1MB DRAM	$115
ATI Winturbo VLB/PCI w/2MB VRAM	$245
VideoLogic PCI SVGA w/2MB VRAM *(Best Buy)*	$129
Wiper Pro Video PCI 4MB VRAM	$379
#9 Vision 330 PCI w/1MB DRAM	$125
#9 Motion 531 PCI w/2MB DRAM	$195
#9 Motion 771 PCI w/2MB VRAM	$251
#9 Imagine 128 w/4MB VRAM	$Call
matrox Millennium PCI 2MB VRAM	$289
miroCRYSTAL 40SV 64-bit PCI w/4MB VRAM	*$219*

MODEMS

MAXTECH 14.4k Fax/Modem Internal	$49
MAXTECH 14.4k Fax/Modem w/ Voice (Internal)	$59
MAXTECH 28.8k V.34 Fax/Modem (Internal)	$139
miroCONNECT 28.8k V.34 w/voice + Wave 16-bit SC	$245
Supra 28.8k V.34 PnP (works w/Triton Chipset)	$129
USR Sportster 14.4k Fax/Modem (Int/Ext)	$89/115
USR Sportster 14.4k fax/Modem/Voice (int)	$129
USR Sportster 28.8k V.34 Fax/Modem (Internal)	$185
USR Sportster 28.8k V.34 Fax/Modem (External)	$202
USR Sportster 28.8k V.34 Fax/Modem/Voice (Int)	$209
USR Sportster 28.8k V.34 Fax/Modem/Voice (Ext)	$235

HARD DISKS

CONNER 850MB EIDE 12ms (CFS850A) 64k	$185
CONNER 1.08GB EIDE 12ms (CFS1080) 64k	$219
CONNER 1.2GB EIDE 12ms (CFS1275A) 64k	$249
CONNER 1.6GB EIDE 14ms (CFS1621A) 64k	$Call
Fujitsu 1.08Gig SCSI 10ms	$335
Fujitsu 2.1Gig Wide SCSI-2 (M2915QAU)	$Call
MAXTOR 850MB EIDE 12ms (MV-7850A)	$185
MAXTOR 1.2Gig EIDE 12ms (MXT71260A) 256K	$249
MAXTOR 1.6GB EDIE 12ms (71626A) 128k	$Call
Quantum 730MB EIDE 11ms Lightning Series	$169
Quantum 850MB EIDE 12ms (TR850A)	$185
Quantum 1.08Gig EIDE 11ms (FB1080A)	$225
Seagate 1.08GB EIDE 11ms (ST51080A) 128k	$229
Seagate 1Gig SCSI (ST31230N)	$379
Seagate 2.1Gig SCSI (ST32550N)	$Call
WD 850MB EIDE 10ms (WD-2850) 64K	$189
WD 1.08Gig EIDE 10ms (WD-3100) 128K	$229
WD 1.27Gig EIDE 10ms (WD-31200) 128K	$269
WD 1.6Gig EIDE 10ms (WD-31600) 128K	$Call

NETWORKING

3COM EtherLink III TPO/TP	$59/99
3COM EtherLink III Combo	$115
3COM EtherLink III PCI/TPO	$125
3COM EtherLink III EISA TP	$209
D-Link EtherLink PCI	$Call
GVC 8-Ports HUB	$99
Intel NetPort Printer	$297
Intel NetPort XL	$389
NE-2000 16-bit Network Adapter	$27
SMC EtherLink III TPO/TP	$89/95
SMC EtherLink III Combo	$119

CD-ROM DRIVE

CreativeLab 6X IDE	$159
Goldstar 4X IDE GCD-R540C(Retail Box)	$109
Mitsumi 4X IDE FX400D	$99
NEC CDR-273 4X IDE	$135
NEC CDR-222 4X SCSI-2	$169
NEC CDR-512 6X SCSI-2	$319
Sony 77E 4X (IDE)	$129
Toshiba 5302B 4X IDE	$139
Toshiba 5301B 4X SCSI-2 (Caddyless)	$235
Toshiba 6X SCSI-2	$Call

KEYBOARDS

BTC 101 Enhanced	$12.95
Compudyne 101 (MAC Style)	$14.95
Focus FK-2001 101 Enhanced w/dust cover	$34.95
Focus FK-9000 w/Built-In Calculator	$52.95
Fujitsu 101 Enhanced	$45.95
Key Tronic 101 Enhanced	$22.95
Maxi Switch 101 Enhanced	$19.95
Mitsumi 101 Enhanced	$13.95
Microsoft Natural Ergonomic (Retail)	$75.95
MNB Windows 95 Keyboard	$28.95

INTERFACE CARDS

ISA I/O 2S, 1P, 1G	$9
ISA IDE 2HD, 2FD, 2S, 1P, 1G	$13
ISA I/O 2S (16,550 UARTS), 1P, 1G	$21
VLB IDE 2HD, 2FD, 2S, 1P, 1G	$13
Adaptec 1505 SCSI	$35
Adaptec 1542CP w/o Kit (OEM)	$175
Adaptec 2940u PCI SCSI-2 w/o Kit (OEM)	$192
Adaptec 2940uW PCI Fast Wide SCSI w/o kit (OEM)	$238
Adaptec 3940W PCI Fast Wide SCSI w/Kit	$Call
Adaptec 2825 VLB SCSI/EIDE (OEM)	$99
Adaptec 2842 VL Fast SCSI-II VESA (OEM)	$185
Adaptec 2742T EISA SCSI-II w/ Kit	$199
Initio 9100W PCI Wide-SCSI	$175
Tyan 1342/1346 EIDE VLB (16550)	$32/19
Tyan 1362/1366 EIDE PCI	$22/$32
Tyan 1392 SCSI-2	$75

FLOPPY DRIVES

MITSUMI1.44MB/1.2MB	$26/$38
MITUSMI 1.2MB & 1.44MB Combo	$72
TEAC 1.44MB/1.2MB	$28/39
TEAC 1.44MB/1.2MB (Black)	$38/48
TEAC 1.2MB & 1.44MB Combo	$79

MICE

Dynamic Serial 3-Button	$5.95
Logitech Serial 2-Button	$9.95
Logitech Serial 3-Button	$14.95
Logitech MouseMan Serial 3-Button	$23.95
Logitech MouseMan Bus Mouse 3-Button	$44.95
Logitech TrackMan Combo Serial	$49.95
Logitech TrackMan Voyager Serial	$59.95

SOUND CARDS

Sound Blaster 16 IDE Int.	$74.95
Sound Blaster 16 PnP	$69.95
Sound Blaster AWE32 w/IDE Int. (OEM)	$155.95
Sound Blaster AWE32 (Retail)	$255.95
Sound Easy System 16-bit (4-in-1)	$44.95
TeleVideo MegaSOUND WaveTable, SRS, IDE...	$125.95

TAPE BACKUP

HP 2.0GB SCSI-2, 4mm, 3.5" DAT Internal	$699
HP 4.0GB SCSI-2, 4mm, 3.5" DAT Internal	$799
Colorado T1000 (800MB)	$165
Colorado 1.4Gig Tape Backup	$229
Conner TapeStor 850 (850MB) w/tape	$185
Conner TapeStor1700 (1.7GB)	$Call

ACCESSORIES

3M DC-2120 250MB Minicartridge	$12.95
3M DC-2120XL 350MB Minicartridge	$19.95
3M Travan TR-1 800MB	$29.95
Colorado DT-1400 1.4Gig Minicartridge	$32.95
Computer Stereo Speakers	$4.95
CP-18 Stereo Speakers	$14.95
JS 306AV Computer Stereo Speakers	$35.95
JS 520AV 114Watts Stereo Speakers	$74.95
JS 590AV 112Watts Stereo Speakers	$78.95
Yamaha YST-M5 Speakers	$39.95
Yamaha YST-M10 Speakers	$74.95
F-002 Stereo Headphones	$2.95
PX-924 Stereo Headphones	$13 95
HP-51625A Color Cartridge	$28.95
HP 1200C Color Cartridges	$19.95
CPU Cooling Kit w/heatsink & fan (486)	$6.95
CPU Cooling Kit w/heatsink & fan (586)	$8.95

>>> Please Call for All Cables

SOFTWARE

MS-DOS 6.22 (OEM) w/system	$35
MS Windows 3.11(OEM) w/system	$45
MS Windows for Work Groups 3.11 w/system	$59
MS Windows 95 CD ROM (OEM) w/system	$99
MS Windows 95 Diskettes (OEM) w/system	$119
MS Bookshelf 95 (OEM) w/system	$24
MS Encarta 95 (OEM) w/system	$24
MS Dangerous Creatures (OEM) w/system	$24
MS Works & MS Money (OEM) w/System	$19
MS Golf (OEM) w/system	$15
Compton Encyclopedia 1995 CD ROM	$19
CD Deluxe Pack 4	$9
Grolier Encyclopedia	$14
Ten Pak (5Ft) CDs	$26
The 7th Guest (2 CDs)	$18

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Web Page Listings *continued ...*

of links, games, and software reviews. Netscape Enhanced. [Exp. #147.]

Mark Butler's End Node Of Fun *http://www.geopages.com/SiliconValley/1133/* No links, just information. Doc Savage, Conan The Barbarian, comics, books, games, and more! [Exp. #148.]

Mimi's Cyber Kitchen *http://www.smartlink.net/~hiller/food/* Over 1000 food-related links and my personal collection of recipes, all in a highly organized format. [Exp. #149.]

Mr Roy's World *http://ourworld.compuserve.com/homepages/mr_roy* Includes ten major Internet search indexes, a guide to cool Web pages, and political topics. [Exp. #149.]

Ovi's World Of The Bizarre *http://netmar.com/users/ovigher/ovi.htm* Absolutely shocking, but unquestionably true short reports. A must see for all Web surfers. [Exp. #148.]

Poirier's Universal Links *http://www.seas.ucla.edu/~poirier/bookmark/bookmark.html* Over five hundred links to the most useful stuff on the Web to a UCLA student. [Exp. #149.]

Rogelio's Home Page *http://pages.prodigy.com/CA/talldude/* This page has BBS numbers for the Los Angeles Area 213, 310, and 818 area codes. Also contains links to useful files and X-Files Web pages. [Exp. #148.]

Sheryl Moulton's Resume *http://redshift.com/~data/* Resume of recent college graduate seeking entry-level position or internship in computer industry. [Exp. #148.]

Soprano Connections *http://www.soprano.com/* Tired of junk links? Try our more than one thousand smart links. [Exp. #148.]

Steve's Hot Stuff *http://www.sonic.net/stephen/* WWW exploring, reference links, freeware/shareware guide, computers in magazines/ezines/radio/TV, user groups. [Exp. #148.]

Suzanne Forsters' Home Page *http://www.deltanet.com/users/forster/* Provides a listing of women's contemporary fiction novels, specializing in romantic adventure. [Exp. #148.]

VinceWorld *http://vinceworld.com/* Euphoria? Ephemera? Get your bizarre, whimsical, undefinable interactive animation here! [Exp. #148.]

Virtual NEMESIS *http://www.geopages.com/athens/2116/* Links to climbing, movie, sci-fi, cartoon, chat lines, and other great sites. [Exp. #148.]

Walt Perko's Home Page *http://www.dnai.com/~wperko* Home pages for the Home Multimedia Hobbyist BBS, the Digital Data Archives, the San Francisco, Sidewalk Astronomers, and more. [Exp. #149.]

Will Ussery Home Page *http://www.slip.net/~wussery/* Designer of Ecco Pro templates. Ecco Pro is a leading Windows-based PIM. [Exp. #147.]

Zpub Sites *http://www.zpub.com* A collection of zines on topics ranging from the San Francisco Cacophony Society to Charity, from the Burning Man archives to Russian Trade Connections. [Exp. #148.]

ARTS

Boulevards *http://www.boulevards.com/* Quality information about arts, entertainment, and contemporary culture and politics in cities around North America. [Exp. #147.]

The Cannonball Express *http://www2.best.com/~canonbal/* A video project-in-progress which adresses urban firestorms, fire safety, and environmental issues. [Exp. #149.]

Kaleidospace Independent Internet Artists *http://kspace.com/* Promotes, sells, and places work by independent artists, musicians, writers, performers, filmmakers, and software developers. [Exp. #147.]

MAD VIRTUAL SERVER *http://www.simona.com/* A free space for independent artists and crazy fellows of any kind. [Exp. #148.]

ENTERTAINMENT/ LEISURE

Amigos Contact Service *http://www.kegel.com/amigos* Find a friend or mate near you. Free, safe, convenient way to reach thousands of local people. [Exp. #148.]

Atomic Eye *http://www.atomiceye.com/atomic/* Join the continuing adventures of Scuff & Pineapple throughout the metropolis of Los Angeles. [Exp. #148.]

Axcis Information Network *http://www.axcis.com/* Makers of SportsMaster and TrackMaster. Online handicapping information for football, basketball, and horse racing. [Exp. #148.]

Backlot Movie Sets *http://www.greenheart.com/keni/* Paintings and prints of Hollywood's movie sets by former scenic artist and set painter. [Exp. #148.]

Baudville *http://www.bville.com/* The scenic route on the Information Superhighway. Art, entertainment, and advertising. [Exp. #147.]

Beatle Link *http://pages.prodigy.com/CA/mervis/beatle.html* A Web site designed to easily access Beatle sites throughout the world. [Exp. #148.]

Bikini Net *http://www.bikininet.com/* This is the place where adventurous adult men and women can explore quality glamour photography and check out photos for The Girls of Paradise Bikini Challenge. [Exp. #148.]

Bodywise *http://www.bwise.com/bodywise* Bodywise provides insightful news, facts, and data to bodybuilders and fitness enthusiasts. [Exp. #148.]

Cajun/Zydeco Web Resources *http://www.slip.net/~arubinst/index.html* A selected, annotated list of Cajun/Zydeco music, dance, and cultural Web resources, including detailed Bay Area info and calendar of events. [Exp. #148.]

CARS—Cyberspace Auto Related Swapmeet *http://www.carsnet.com/* Find all kinds of vehicles for sale, everything from uniques to antiques. A video page offers over eighty of the Wildest Racing Motorsports tapes available. [Exp. #147.]

The Case *http://www.thecase.com/* A fun and challenging mystery Web site designed to encourage users to return week after week. [Exp. #149.]

Cherry Lane Music *http://www.cherrylane.com/* High-quality printed music. Rock, guitar, folk, pop, and country are our specialties. We are leaders in guitar tablature. [Exp. #148.]

Classical CD Scout, Web Edition *http://www.cdscout.com/cdscout/* Lively but sophisticated review of classical recordings—reviews, articles, and features. [Exp. #148.]

Classic/Vintage Thunderbirds *http://www.hooked.net/users/gwotel/index.html* Classic (1955–1957) and Vintage (1958–1966) Ford Thunderbird Web site. [Exp. #147.]

Clicket *http://www.clicket.com/clicket* Products from *Star Trek, Star Wars* costumes and gifts to personalized Christmas cards and Santa suits. [Exp. #148.]

Cyberpet *http://www.cyberpet.com/* To boldly go where no pet fancier has gone before. Dogs galore! [Exp. #148.]

Digital Restaurant Guide To San Francisco *http://sf.net/lantern/* Every single restaurant in San Francisco with detailed locator maps, review, and info. [Exp. #148.]

Distant Shores *http://www.distantshores.com/* We showcase full-color photos/descriptions of high-end antiques and collectibles. 1-800-274-5968. [Exp. #148.]

Electric Mercado *http://www.mercado.com/* A bilingual online cultural center and marketplace showcasing Latino lifestyles. This site is modeled after the traditional Latin American mercados with all their richness and.color. [Exp. #149.]

Fogo E Paixao *http://www.earthlink.net/~fogo/* Brazilian introduction and matching agency online. [Exp. #147.]

Gold Sheet Sports Page *http://www.goldsheet.com/* Provides useful, in-depth, and timely information in the field of sports gambling. [Exp. #148.]

The Happy Happy Joy Joy Web Site *http://www.infinet.com/~ngsippel/hhjj.html* Classic *Ren & Stimpy* fans should check this out. Remember when *R&S* was good? We do. [Exp. #147.]

HotPlatters *http://www.earthlink.net/~oversight/HotPlatters.html* Vinly LP's: R 'n' R, Comedy, Country, Folk, Personalities, R&B, Soundtracks, music-related books, and paper goods. [Exp. #148.]

Lee LaMotta Productions *http://users.aol.com/llamotta/lee.htm* Home page of LA-based voiceover artist; writer, producer, includes downloadable voiceover demo. [Exp. #149.]

Match.Com *http://www.match.com/* Internet matchmaking! Browse photos and personal profiles, email and match by category and location; over 30,000 members worldwide! [Exp. #148.]

Miracle Mile Coin *http://www.masterm.com/mmcoin.html* Information on rare coins and numismatic happenings. [Exp. #148.]

Moss Beach, California *http://www.coastside.net/USERS/gladman/mossbeach.html* Things to see and do along the San Mateo county coastside. [Exp. #148.]

!MuCoMo! *http://www.mucomo.com/* RealAudio interviews and photo scrapbooks of your favorite stars. CD and concert reviews with Ivan. News updated daily. [Exp. #149.]

nabulae *http://www.nebulus.com/* Nebulous music for nebulous times. [Exp. #148.]

Numismatists Online *http://www.numismatists.com/* Numismatists Online, interactive rare coin auctions on the Web. A proven forum for Internet-based commerce. [Exp. #148.]

Old Sturbridge Village *http://www.osv.org/* Catch a glimpse of 19th-century life with 20th-century technology. [Exp. #148.]

One Live To Laugh *http://westworld.com/~nosnorba/* Independent film about a boy with dyslexia trying to make it in the stand-up comic world. [Exp. #147.]

Pun Master *http://www.punmaster.com/* [Exp. #148.]

PureArtMarket *http://www.PureArtMkt.com/* Unfiltered entertainment on the Internet. A place where emerging filmmakers, musicians, and other artists distribute their work. [Exp. #148.]

The Reader's Corner *http://www.quake.net/~autopen/* Mystery, romance, fantasy. Theme pieces, new releases, classics, humor. Pro-women site. Free email publication too. [Exp. #149.]

Robert Altman Photography *http://www.cea.edu/robert/* Large collection of images and stories from this former chief photographer for *Rolling Stone* magazine. [Exp. #149.]

San Francisco's Best Of Broadway *http://www.bwaytheatresf.com/* A comprehensive Web site on the Best of Broadway series at San Francisco theatres. Learn more about current and upcoming shows, the theatres, and how to purchase tickets. [Exp. #148.]

ScruTiny Associates *http://www.didi.com/scrutiny/* Explore the surreal, hypnotic world of the groundbreaking "ScruTiny in the Great Round" CD-ROM work of art. [Exp. #149.]

Seven Crown Resorts *http://www.sevencrown.com/* Get information about houseboat vacations on four of the West's most spectacular waterways: Lake Mead, Lake Mohave, Lake Shasta, and the California Delta. [Exp. #148.]

SFbuzz *http://www.soos.com/sfbuzz/* San Francisco theatre and movie reviews, with the latest gossip and links to San Francisco. [Exp. #147.]

Split *http://www:splitnews.com/nomad/* Whet your wanderlust with

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486DX2-66MHZ SYSTEM

- 486DX2-66/80MHz AMD CPU w/Cooling Fan
- 486-PVT Main Board w/256KB Cache
- Cirrus Logic VLB IDE Multi I/O Card
- 4MB of RAM 70ns (72-Pin Simm)
- Teac 1.44MB (3.5") Floppy Drive
- Maxtor 630MB IDE Hard Drive
- Cirrus Logic VLB w/1MB DRAM
- Chicony 101 Enhanced Keyboard
- Mini Tower Case w/230Watt P.S.
- Microsoft Compatible Mouse
- Techmedia 14" .28dpi Non-Interlaced Monitor

$910/930

Optionals upgrade

THCS PROFESSIONAL PENTIUM SYSTEM

- New INTEL TRITON P5-586-120/133MHz
- Endeavor MB W/256K Pipeline Burst Mode Cache
- 2 Hi-Speed UART 16550 Com Port Built-in
- Intel 120/133MHz CPU w/Cooling Fan
- 16MB of RAM 70ns (72-Pin Simm)
- Teac 1.44MB Floppy Drive
- Maxtor 1.2GB Fast IDE Hard Drive
- Diamond Stealth 64 PCI w/2MB RAM
- Toshiba Quad Speed IDE CD-ROM
- Vibra 16-Bit Sound Card Built-in
- 80Watt Amplified Spearkers + CD-Titles
- Keytronic 101 Keys Enhanced keyboard
- Full Tower Case w/250Watt P.S.
- Microsoft Serial Mouse w/Mouse Pad
- 15" .28dpi 1280X1024 NI Monitor

Optionals upgrade

$2255/2445

MOTHERBOARDS

Intel Pentium MB P586-PCI 75/90/100Mhz *Zappa MB-Triton Chipset w/ 256 15ns Cache*	$235
Intel Pentium MB-P586-PCI 120/133Mhz *Endeavor MB-Triton Chipset w/ 256K 15ns Cache Built in Vibra Sound Card w/ ASP Chip*	$334
Pentium PCI Flexible Main Board *Triton Chipset w/ 256KB 15ns Cache Two on board serial ports (16550 UART) 72pin Simm*	$198
All PCI/ISA-BUS Main Board *G54CAP (Pentium 90/100) 256K Cache Green Board (72Pin Simm)*	$185
Vega 486-AIO System Board *Symphony Wagner Chipset w/ 256K Cache (72Pin Simm)*	$189
Green Function VL-Bus System Board (DX4-100/MV045) *Opti Chipset w/ 256KB Cache (32/72Pin Simm)*	$110
Green Function VL-Bus System Board (DX4-100/MV026) *Opti Chipset w/ 256KB Cache (72Pin Simm)*	$110
Green Function 486/P24T VLB *Opti 495SLc PC/AT w/ 128KB Cache (32Pin Simm)*	$97

FAX/MODEMS

Infotel 14.4K I/E	$77/90
Infotel 28.8K I/E	$127/110
Zoltrix 14.4K V.32bis	$74
Zoltrix 28.8K V.32 bis V.42 bis I/E	$124
U.S. Robotics Sportster 14.4K I/E	$97/119
U.S. Robotics Sportster 28.8 V34 I/E	$219/234
OTHERS	$CALL

HOT 486DX4-100/120MHZ SYSTEM

- DX4-100/120Mhz AMD CPU w/ Cooling Fan
- Edom 486-UNIVERSAL GREEN M/B
- 256KB Cache/Vesa Local Bus
- 8MB of RAM 70ns (72-Pin Simm)
- VLB IDE Multi I/O Controller Card
- Maxtor 850MB IDE Hard Drive
- Teac 1.44MB Floppy Drive
- Cirrus Logic VLB w/1MB DRAM
- 4X IDE CD ROM + Sound Blaster 16-Bit
- Chicony 101 Enhanced Keyboard
- Middle Tower Case w/ 230 Watt P.S.
- Techmedia 14" .28dpi Non-Interlaced Monitor
- Microsoft Compatible Mouse w/Pad

$1259/1289

Optionals upgrade

INTEL "ATLANTIS" 120/133/166MHZ

- Intel Triton P5 586-120/133/166MHz
- Atlantis MB w/256K Pipeline Burst Mode Cache
- 2 Hi-Speed 16550 UARTS Com Port Built-in
- Sound Blaster Pro 16 Built-in
- ATi Mach 64 CT, MB DRAM Built-in (upgradable to 2MB)
- 16MB of RAM 70ns (72-Pin Simm)
- Maxtor 1.2GB Fast IDE Hard Drive
- Teac 1.44MB Floppy Drive
- EIDE 4X EIDE CD-ROM Drive
- Full Tower w/230Watt P.S. w/LED
- Microsoft Serial Mouse w/Mouse Pad
- Keytronics 101 Enhanced Keyboard

P5-120	P5-133	P5-166
$1860	$2060	$2410

CONTROLLER CARDS

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1542CF SCSI w/ Kit	$179/242
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2940W Wide SCSI-PCI Kit w/ Wide Int. Cable	$299
CIRRUS LOGIC	
ISA-IDE Controller Card	$19
Multi-I/O IDE Controller Card	$33
Enhanced VLB-IDE I/O Controller Card	$37
WINBOND	
Enhanced VLB-IDE I/O Controller Card	$45
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CD-ROM DRIVES

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- Quad Speed IDE CD ROM Drive
- Vibra 16-Bit Sound Card
- 850MB E-IDE Hard Drive
- Teac 1.44MB Floppy Drive
- Diamond Stealth 64 PCI w/1MB DRAM
- Middle Tower Case w/230 Watt P.S.
- Microsoft Compatible Mouse w/Pad
- Chicony 101 keys Enhanced Keyboard

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Optionals upgrade

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XE 15" 1024x768 .28dpi	$545
XE 17" 1024x768 .28dpi	$995
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XP 15" 1024x768 .28dpi opticlear	$673
XP 17" 1280x1024 .28dpi opticlear	$1115
XP 21" 1600x1200 .28dpi opticlear	$2299
SAMPO	
14" 1024x768 .28dpi Non-interlaced	$240
15" 1024x768 .28dpi Non-interlaced	$336
17" 1280x1024 .28dpi Digital Non-interlaced	$697
SONY	
15SF .25dpi 1280x1024	$499
17SF .25dpi 1280x1024	$870
17SE .25dpi 1280x1024	$1129
20SE .30dpi 1600x1200	$1895
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ATi	
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INTEL PENTIUM 75/90/100MHz

- Intel Triton P5 586-75/90/100MHz M/B
- 256KB 15ns Cache, Zappa Motherboard
- 2 Hi-Speed UART Com Port Built-in
- 16MB of RAM 70ns (72-Pin Simm)
- Multimedia Kit (4X E-IDE CD-ROM, Sound Blaster 16)
- Amplified Stereo Speakers, 21 Interactive Titles
- Includes Compton's Encyclopedia and PC Seller: MegaRace
- 80Watt Amplified Speakers + CD-Titles
- Maxtor 1.2GB Fast IDE Hard Drive
- Teac 1.44MB Floppy Drive
- Diamond Stealth 64 PCI w/2MB DRAM
- Middle Tower w/230Watt P.S.
- Microsoft Serial Mouse w/Mouse Pad
- Mitsumi 104 Keys Keyboard

Optionals upgrade

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OTHERS	$CALL

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SoundBlaster 16/SoundBlaster 16 ASP	$80/93
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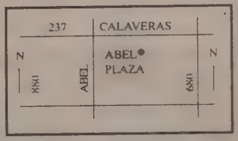

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Online Guide

Web Page Listings *continued...*

Split's new blend of international travel news, views, and reviews. [Exp. #148.]

Stardust: To Catch A Comet *http://pdc.jpl.nasa.gov/stardust/home.html* Stardust is a NASA space exploration mission for the 21st century. Launch of the probe is slated for Feb. 1999, with the encounter of comet Wild 2 set for Dec. 2003. [Exp. #147.]

Steppinstone Entertainment *http://www.primenet.com/~kantoku/* Web page creating services, independent film company information, and more. [Exp. #147.]

Third World Traveler *http://www.nbn.com/people/stevetwt* Third World Traveler provides alternative and human rights information to travelers to Third World countries. [Exp. #148.]

Tripod *http://www.tripod.com/* Ready for the real world? Tripod provides tools for life—travel, money, health, living, work, and community. [Exp. #147.]

TV Net. *http://tvnet.com/* TV chat, fourms, and jobs. All available TV Show links. [Exp. #148.]

Tymon's Try-B4-Buy Book Club *http://www.av.qnet.com/~frank/index.html* Free access to Tymon's Tirades. Synopses, original books (250 page+) on parenting, politics, science fiction, fantasy, programming. [Exp. #148.]

The Unofficial Heckler And Koch USP Home Page *http://www.primenet.com/~tlau/usp/usp.html* Info on the H&K USP pistol and general information of interest to all shooters. [Exp. #148.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art and fitness community that includes world-famous Muscle Beach. [Exp. #149.]

Vinylware *http://www.Vinylware.com/* The Artist's Music Distribution Alternative. Providing Web access for musicians. [Exp. #148.]

Virtual Vineyards *http://www.virtualvin.com* Presenting a great selection of fine wines and speciality foods you can order and have delivered to your door. [Exp. #148.]

Webcorp Political Satirical Content *http://www.webcorp.com/* Pages include The Richard Nixon Audio Archive, Political Babble Generator, New Orleans Cemetery Images, Wheel O'Congress, and others. [Exp. #147.]

Weddings Online *http://weddings-online.com/* The Internet's largest marketplace of wedding services and information. Over twenty-five categories to choose from. [Exp. #148.]

The Wine Authority *http://www.wineauthority.com/* A wine buying and information service. [Exp. #149.]

ZByte Games *http://www.insist.com/zbyte/* Manufacturer of casino quality, high-tech playing cards that allow design of 21st-century logic and binary games. [Exp. #148.]

Zeeters International Pools *http://www.zeeters.co.uk* British expatriates and other overseas fans of British football can now play the British Football Pools on the Internet. [Exp. #148.]

ADULT ENTERTAINMENT

Adult CD-ROMs! *http://www.primenet.com/~rdmm/* Free catalog. The hottest adult interactive games and movies available. ROM-Dezvous multimedia. [Exp. #147.]

Garden Of Eden *http://www.goe.com* High-traffic adult site. Advertise your business or page here. Sex, psychics, technology. [Exp. #148.]

Interact *http://diversion.com/* The place for live chat and multiplayer games. Adults only. [Exp. #148.]

Nikkita's Outrageous Fantasies *http://www.hooked.net/users/xxx* See Nikkita, a Bay Area stripper, and read some of her stories. Adult entertainment. [Exp. #148.]

Sexy Internet Playmates *http://www.well.com/user/sexymate/* An adult entertainment Web site featuring a great library of photos and many user-interactive features, and more. [Exp. #148.]

Sunshine International *http://sunshine-girls.com/* Asian women desire romance, marriage. World's #1 correspondence service since 1984. Free photo-brochure. [Exp. #151.]

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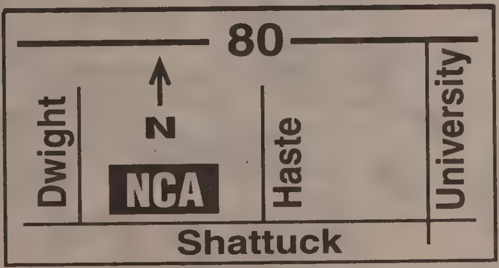

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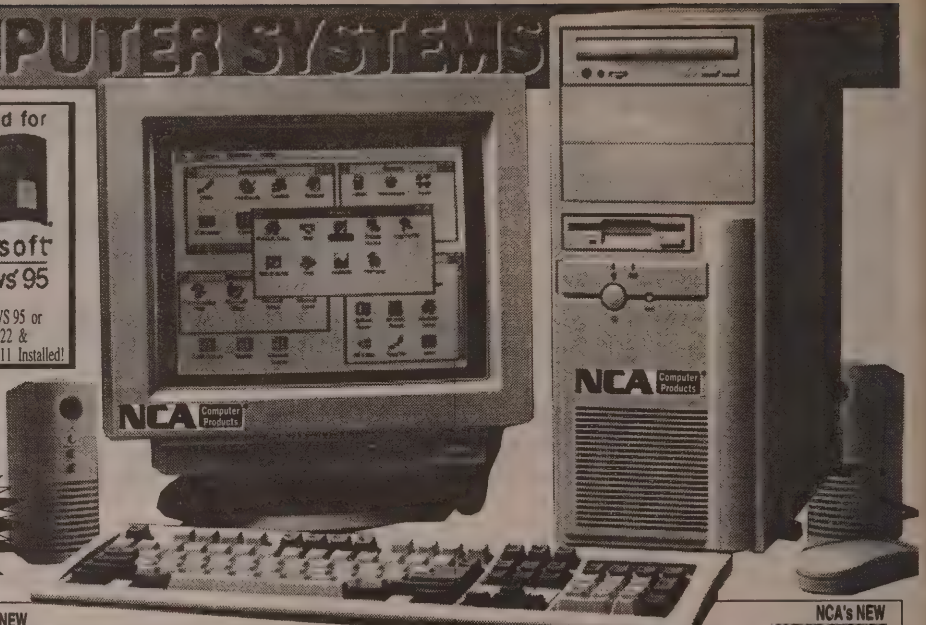

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- **Diamond 2120 2MB** with **MPEG** PCI video card
- **Western Digital 1.6GB** Enhanced IDE hard drive
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- **SoundBlaster** Vibra 16-bit sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

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Monitor not included

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- 4-PCI / 4-ISA (P&P ready), **256K Pipeline Burst cache**
- **TRITON** CHIPSET
- **16MB EDO RAM**/72 pin SIMMs
- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond 2120 2MB** with **MPEG** PCI video card
- **Western Digital 1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Six-Speed** CD-ROM drive
- **SoundBlaster** Vibra 16-bit sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

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- **TRITON** CHIPSET
- **16MB EDO RAM**/72 pin SIMMs
- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond** Stealth 64 **2MB** PCI video card
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-Speed** 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra **16-bi** sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

WESTERN DIGITAL MITSUMI FCC B APPROVED YAMAHA IDE DIAMOND

$2249

Monitor not included

WHILE SUPPLIES LAST!

NCA's NEW
ALEXIS QP5C120

PENTIUM™ 120MHZ PCI
QUAD SPEED MULTIMEDIA TOWER SYSTEM
1.2GB/16MB *EDO* RAM 256K PIPELINE BURST CACHE

- **Intel P120** w/ Heatsink
- **NCA**'s elegant tower case
- 250W power supply
- 4-PCI / 4-ISA (P&P ready), **256K Pipeline burst cache**
- **TRITON** CHIPSET
- **16MB EDO RAM**/72 pin SIMMs
- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond** Stealth 64 **2MB** PCI video card
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-Speed** 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra **16-bit** sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

WESTERN DIGITAL MITSUMI FCC B APPROVED YAMAHA IDE DIAMOND

$1999

Monitor not included

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NCA's NEW
ALEXIS QP100

PENTIUM™ 100MHZ PCI
QUAD SPEED MULTIMEDIA TOWER SYSTEM
1.2GB/8MB EDO RAM 256K CACHE

- **Intel P100** w/ Heatsink
- **NCA**'s elegant tower case
- 200W power supply
- 4-PCI / 4-ISA (P&P ready), 256K cache
- **TRITON** CHIPSET
- **8MB EDO RAM**/72 pin SIMMs
- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond** Stealth 64 **2MB** PCI video card
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-Speed** 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra **16-bit** sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

WESTERN DIGITAL MITSUMI FCC B APPROVED YAMAHA IDE DIAMOND

$1729

Monitor not included

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NCA's NEW
ALEXIS QP90

PENTIUM™ 90MHZ PCI
QUAD SPEED MULTIMEDIA TOWER SYSTEM
1.2GB/8MB EDO RAM 256K CACHE

- **Intel P90** w/ Heatsink
- **NCA**'s elegant tower case
- 200W power supply
- 4-PCI / 4-ISA (P&P ready), 256K cache
- **TRITON** CHIPSET
- **8MB EDO RAM**/72 pin SIMMs
- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond** Stealth 64 **2MB** PCI video card
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-Speed** 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra **16-bit** sound card
- **Microsoft** Mouse
- **Yamaha** M5 Stereo speakers

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$1649

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M1

IDE HARD DRIVE SUPER SOURCE

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We Offer a Complete Line to Choose From!

630MB IDE 3.5"X1" HARD DRIVE

- CFS635A
- 14ms
- Enhanced IDE
- 3-year warranty

NEW!

ENHANCED IDE

$179.95

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Maxtor

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1.6GB IDE 3.5"X1" HARD DRIVE

- 71626AV
- 12ms
- Enhanced IDE
- 2-year warranty

ENHANCED IDE

$269.95

FULL LINE OF Maxtor® DRIVES — LOW PRICE GUARANTEE!*

LOW
PRICE
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850MB IDE 3.5"X1" HARD DRIVE

- CFS850A
- 14ms
- 64K cache
- 3600 RPM
- Enhanced IDE
- 3-year warranty

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$184.95

Seagate

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1.2GB IDE 3.5"X1" HARD DRIVE

- ST51270A
- XXms
- Fast ATA-2
- 3 year warranty

NEW!

FAST ATA

$239.95

HEWLETT PACKARD

We Offer a Complete Line to Choose From!

1.6GB IDE 3.5"X1" HARD DRIVE

- C5271A
- 12ms
- Enhanced IDE
- 512K cache
- 5 year warranty

ENHANCED IDE

$288.95

Quantum™

We Offer a Complete Line to Choose From!

1.2GB IDE 3.5"X1" HARD DRIVE

- QM31280FBA
- FIREBALL SERIES®
- 12ms
- 5400 RPM
- 128K cache
- FAST ATA-2
- 5 year warranty

FAST ATA

$227.95

FULL LINE OF Quantum™ DRIVES — LOW PRICE GUARANTEE!*

WESTERN DIGITAL

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1.0GB IDE 3.5"X1" HARD DRIVE

- AC21000
- 10ms
- 128K cache
- 5200RPM
- Enhanced IDE
- 3-year warranty

ENHANCED IDE

$215.95

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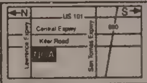
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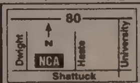
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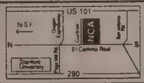
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850MB SCSI-II 3.5"X1" HARD DRIVE

- QM30850TRS
- 14ms
- 128K Cache
- 5 year warranty

NEW!

$184.95

External SCSI Drive For PC or MAC

Tornado Series External SubSystems

INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$254.95

FULL LINE OF Quantum™ DRIVES

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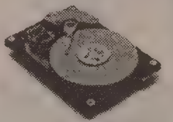
9.0GB SCSI-II 5.25" HARD DRIVE

- ST410800N
- 9.5ms
- 5-year warranty

$1999.95



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INCLUDES:
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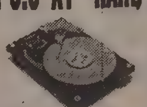
2.14GB SCSI-II 3.5"X1" HARD DRIVE

- CFP2105S
- 8.5ms
- 5 year warran

$545.95



External SCSI Drive For PC or MAC

Tornado Series

INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$615.95

FULL LINE OF CONNER DRIVES

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FUJITSU

We Offer a Complete Line to Choose From!

1.0GB SCSI-II 3.5"X1" HARD DRIVE

- 1606SAU
- 10ms
- 512K Cache
- 5 year warranty

$225.95

External SCSI Drive For PC or MAC

Tornado Series External SubSystems

INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$295.95

FULL LINE OF FUJITSU DRIVES

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We Offer a Complete Line to Choose From!

4.3GB SCSI-III 3.5" HARD DRIVE

FAST WIDE OR STANDARD CONNECTOR

- XP34301SWAD
- 8.5ms
- 7200 rpm
- 512K Cache
- 5 year warranty

$899.95

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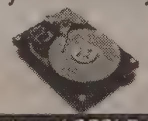

External SCSI Drive For PC

Tornado Series External SubSystems

INCLUDES:
- SCSI cable & terminator

Standard **$969.95**

Fast Wide **$1099.95**

FULL LINE OF Quantum™ DRIVES

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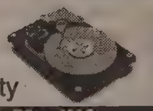
2.1GB SCSI-II 3.5"X1" HARD DRIVE

- HP3725
- 8.9ms
- 512K Cache
- 5-year warranty

$559.95



External SCSI Drive For PC or MAC

Tornado Series

INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$629.95

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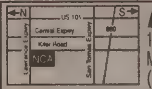

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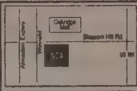

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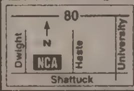

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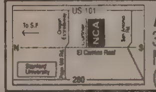

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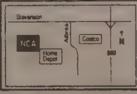

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SCSI CONTROLLERS

adaptec

PCI to SCSI-II Controller Card

AHA-2920

NEW!

PROGRAMMED I/O (PIO)

- Up to 10MB/s SCSI Synchronous Data Rate
- Compatible with up to 8GB Hard Drives or other media
- Windows 95, Windows 3.1, Windows NT, Windows for Workgroups, DOS 5.0 and above, OS/2 Warp, NetWare 3.12 and 4.x, UnixWare 2.0, SCO Unix Rev. 4.2 and above

$\$154^{95}$

SCSI CONTROLLERS

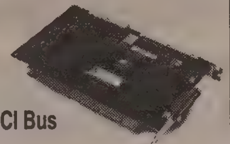
MODEL	DESCRIPTION	PRICE
APA-1460	Slim SCSI-2 PCMCIA SCSI Card	$\$169^{95}$
AVA-1505	TOTAL CD 16-BIT SCSI-II	$\$49^{95}$
AVA-1515	Total Connect ISA to SCSI host adapter w/ BIOS	$\$85^{95}$
AHA1522 A-PLUS	16-BIT 7HD/2FD KIT	$\$135^{95}$
AHA-1542CP	ISA to Fast SCSI BUS Master	$\$235^{95}$
AVA -2825VL	TOTAL ADVANTAGE VL	$\$155^{95}$
AHA-2842A	Fast SCSI-II VESA	$\$235^{95}$
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$\$249^{95}$
AHA-2940UW	Ultra Wide PCI host adapter	$\$299^{95}$
AHA-3940	Twin Channel PCI	$\$405^{95}$
AHA-3940W	Twin Channel PCI wide	$\$469^{95}$
AHA-3985	PCI RAID Adapter w/ 3RISC Processors	$\$709^{95}$
APA-348	SlimSCSI PLUS	$\$119^{95}$
APA-358	SlimSCSI EPP	$\$155^{95}$
APA-9320	Airport 2000-Wireless infrared port for PCs	$\$94^{95}$
APA-9320/9310	Airport 2500-Wireless infrared port for PCs	$\$139^{95}$

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$\$115^{95}$
DTC3274VL	SCSI-II Bus Mastering	$\$159^{95}$

qlogic Corp.



Host Adapter Card for the PCI Bus

FAST!SCSI PCI Basic

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

$\$119^{95}$

SCSI CONTROLLERS

MODEL DESCRIPTION	PRICE
FAST! SCSI PCMCIA Bus	$\$164^{95}$
FAST! SCSI ISA Bus FL	$\$115^{95}$
FAST! SCSI VESA Bus FL	$\$189^{95}$
FAST! SCSI IQ PCI WIDE Bus	$\$209^{95}$
FAST! SCSI IQ PCI-10 Bus	$\$205^{95}$

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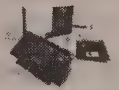

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP545C	ISA Bus Master Fast SCSI Adapter Kit	$\$208^{95}$
KP445C	Bus Master Fast SCSI Kit for VL Bus	$\$195^{95}$
KP757C	FASTWIDE SCSI Card	$\$348^{95}$
KP930C	32-Bit Bus Master FAST SCSI -PCI NEW!	$\$144^{95}$
KP946C	Bus Master Fast SCSI for PCI Local Bus	$\$229^{95}$
KP956C	WIDE PCI Card	$\$289^{95}$

IDE CONTROLLERS

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IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP510A	IDE Cache Contoller For PC/AT Sys.	$\$89^{95}$
KP410A	IDE Cache Controller for VLB	$\$115^{95}$
KP910A	IDE PCI Cache Controller	$\$165^{95}$

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$\$25^{95}$
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$\$44^{95}$

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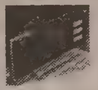
TECHNOLOGY, INC.
IDE CACHING CONTROLLERS



Enhanced IDE Controller Card

DC-2300+

- Complete enhanced IDE support
- Perfect solution for high capacity drives with on-board BIOS
- Controls up to 4 IDE devices including IDE CD-ROM drives
- High speed I/O

FAST ATA ENHANCED IDE

$\$59^{95}$

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	$\$87^{95}$
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$\$99^{95}$
DC-420VLB	VESA IDE 512K Cache	$\$95^{95}$
DC-4030VL-2	VESA IDE 2.88MB support 4HD/2FD	$\$99^{95}$
DC2032	ISA Caching controller	$\$124^{95}$
EIDE *MAX*	-16-bit enhanced IDE controller	$\$24^{95}$

gsi™ Intelligent Accelerator/IDE Boards

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$\$45^{95}$
GSI 18	16-Bit 2 IDE Devices	$\$35^{95}$
GSI 21	16-Bit 2FD/Tape Backup	$\$55^{95}$
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$\$115^{95}$
GSI 4C	16-Bit 8-IDE Devices	$\$119^{95}$
GSI 1645-V1	32-Bit VESA FAST ATA-2 E-IDE (2 DRIVE)	$CALL
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QUICKPATH

Port-Folio 16550

13-Port Super I/O Card

4 Integrated NS16550 High Speed UARTs

- 2 IDE HD
- 4 floppy
- 2 Parallel
- 4 Serial
- 1 Game

$\$119^{95}$

Flexport 42-6 Port.....$99.95

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IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC 2278D	VESA Multi I/O 2s/1p/1g Enhanced IDE	$\$22^{95}$
DTC 2278E	VLB Enhaced IDE, Enhanced Parallel: Serial Port	$\$24^{95}$
DTC 2278EB	VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios	$\$38^{95}$
DTC 2278D+	Enhanced IDE Multi-Functional I/O	$\$26^{95}$
DTC 2280E	16550 EPP/ECP	$\$19^{95}$

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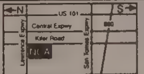

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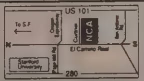

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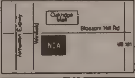

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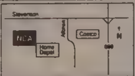

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MicroSolutions backpack
Computer Products

Low Price Guarantee!*

800MB External Parallel Port Tape Backup System

WINDOWS 95 Compatible!

- Up to 800MB capacity with new TRAVAN technology
- UP TO 9MB/ minute backup speed
- Supports new high speed EPP & 1284 ports
- Printer pass through allows printing without disconnecting drive
- Includes FREE backup software for Windows & DOS
- 2 yr. warranty

800TD **$159.95**

COLORADO MEMORY SYSTEMS

NEW!

Low Price Guarantee!*

350MB Internal Tape Backup System

NOW INCLUDES WINDOWS 95 DRIVERS!

- Up to 350MB capacity using data compression
- Up to 9.5MB/minute backup speed
- 200MB backup in about 20 minutes
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

DJ-35D **$124.95**

800MB Internal Tape Backup System

NOW INCLUDES TAPE CARTRIDGE!

- First with TRAVAN technology
- Up to 800MB capacity using data compression
- Up to 9.5MB/minute backup speed
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

T-1000 **$179.95**

HEWLETT PACKARD

NEW!

Low Price Guarantee!*

2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- 2GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 183Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridge
- Compliant with all DDS DAT Drives

C1534A **$688.95**

4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- Typically 4GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 366Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridges
- Compliant with all DDS DAT Drives

NEW!

C1536A **$788.95**

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SyQuest **EZ-135**

Low Price Guarantee!*

135MB 3.5" EXTERNAL SCSI-II SYQUEST REMOVABLE

Unlimited PORTABLE storage capacity on a 3.5" disk!

- 13.5ms seek time
- 135MB Cartridge
- Cables
- Installation Software
- 1.9MB/sec sustained transfer rate - twice the transfer rate of the Zip Drive
- MTBF 200,000 hours

Includes FREE 135MB Cartridge

$229.95

FUJITSU *2512*

Low Price Guarantee!*

230MB 3.5" Internal SCSI-II Rewritable Optical Drive

- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC (free upon request)

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HEWLETT PACKARD *C1716T*

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1.3GB Internal SCSI-II Rewritable & WORM Drive

- 512K buffer
- Up to 1.6MB sec. read & 0.8MB/sec write
- Up to 3600 RPM
- 5MB/sec burst rate
- 23.5 average seek time

$1975.95

IBM Imagestar Basic

Low Price Guarantee!*

230MB 3.5" Internal Optical Drive

With the advantage of SCSI performance, reliable storage at a low cost-per-byte, high capacity 230MB and a slim 3.5" format, the Imagestar 230MB Optical Disk Drive from Options by IBM is the perfect choice for all kinds of desktop applications.

- SCSI-II interface
- 230MB capacity per 3.5" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 40,000 MTBF
- 1 year warranty

$555.95

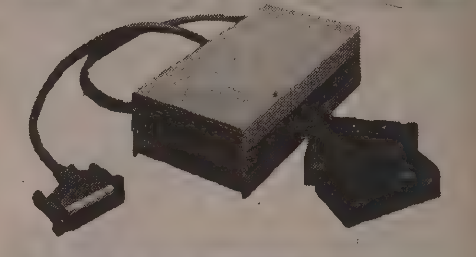
1.3GB 5.25" Internal Optical Drive

When you're looking for the versatility to handle all you large file needs, the multifunction IBM Imagestar 1.3GB Optical Disk Drive provides a perfect solution. Combines multifunction capabilities with a 1.3GB capacity - the only drive that you can use to transport large files on rewritable, CCW Write Once, Read Many (WORM) or permanent WORM media.

- SCSI-II interface
- 1.3GB capacity per 5.25" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 180,000 MTBF
- 1 year warranty

MO-DRIVE

$1688.95



Recordable CD Drives

SONY *Sony Spressa 920 CD Recorder for PC*

Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with Corel CD Creator software (a data editor, audio editor, & jewel case designer), making recording quick and easy.

- **CSP-920S**
- 650MB, 74 minutes audio recording
- 360ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, & 2x
- Includes 3 CD-R discs

NEW!

$1039.95

HEWLETT PACKARD *HP SureStore CD-Writer 4020i*

Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with a complete software suite for creating custom CDs, along with the necessary media, cards, and cables to begin recording immediately.

- **C4324A**
- 650MB, 74 minutes audio recording
- <390ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, 2x, and 4x (600KB/sec)

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Floppy Drives

MITSUMI *High Quality*

Low Price Guarantee!*

1.44MB 3.5"	$28.95
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BACKUP SOFTWARE FOR THE PROFESSIONALS

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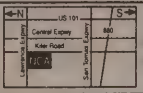
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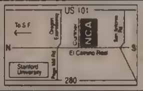
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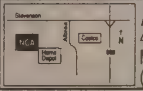
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M5

HIGH QUALITY PRODUCTS

TAPE DRIVES

PERTEC
Personal Tape Backup Drives

MYTAPE 800

800MB INTERNAL NEW!

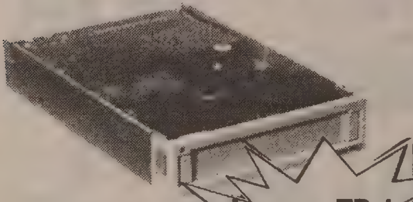
TAPE BACKUP SYSTEM

TRAVAN TECHNOLOGY

IT'S COMPATABLE WITH:

- Travan tape 400MB uncompressed capacity, 800MB compressed
- QIC-Wide 210MB capacity uncompressed, 420MB compressed
- QIC-80 125 capacity uncompressed, 250MB compressed
- QIC-40 40 read compatability

Software included is full featured Windows 95, Windows & DOS compatible and allows for unattended backups



MYTAPE 800

$159^95

INCLUDES TR-1 CARTRIDGE

Includes:
- Internal Cable
- Detailed hardware guide
- 5.25" mounting bracket
- 3.5" Form Factor internal tape backup drive
- All Aluminum Chassis
- 5 Year Warranty
- Easy-to-use software for DOS, Windows & Windows 95 with step-by-step manual.

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QIC
QIC-WIDE
400MB 800MB Compressed 2:1
AFAQ ISO 9002
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SHIPS WITH ARCADA SOFTWARE
Designed for Microsoft Windows 95

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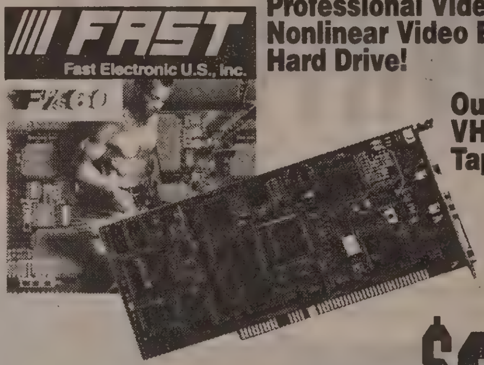
FAST
The Art of Digital Video.

NEW!

INTRODUCING THE *FPS 60* VIDEO EDITING SOLUTION!!



Professional Video Quality for Nonlinear Video Editing from Your Hard Drive!

Output Directly to VHS, S-Video or HI8 Tape or TV monitor!

$699^95

- **60 field/30fps studio quality capture**
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- **2 SVHS inputs, 1 SVHS output**
- **Video Overlay up to 1280X1024**

Includes Adobe Premiere 4.0 LE, Photoshop LE, XingMPEG encoder software, Simply 3D animation software

MPEG Extension MM-50515 - **$375^95**

MOVIE MACHINE PRO

Combines hardware & software for frame & movie grabbing, live overlay, TV tuner, tape editing & video out!

NEW!

- Built-in TV Tuner
- True Color Frame Grabbing
- Video Overlay up to 800X600
- Edit, mix & playback video effects
- 2 video inputs & 1 video output
- Create stunning video productions "on-line"
- Optional Motion JPEG Daughter Card for hard drive editing

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Motion JPEG
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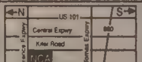

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VIDEO CARDS

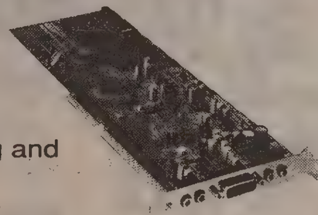
Advanced GRAVIS

ALL YOU NEED TO GET STARTED ON THE INTERNET

GRAVIS UltraSound Plug and Play

16-Bit 32-VOICE WAVETABLE PC SOUND & GAME CARD

Talk to any one with an Internet connection and a sound card, microphone & speakers. Includes REAL AUDIO™ software - Tune in to Internet "Radio" and download. Get online in no time with COMPUSERVE INTERNET STARTER KIT - Includes WinCom®, NetLauncher™ with SPRY Mosaic®, and more - PLUS FREE Connect Time!



- Upgradeable to 8MB RAM
- AMD Interwave™ DDSP
- 32-Voice synthesizer
- 32 channels for digital effects
- Beyond CXD quality recording and playback at 16-bit, 48KHz
- Hardware mixing so you won't sacrifice game performance for good mixing
- Line-in, Line-out, Mic-in, ATAPI IDE CD-ROM Interface, CD audio and Joystick/MIDI adaptor

$124.95

GRAVIS UltraSound Plug and Play PRO

16-Bit 32-VOICE WAVETABLE PC SOUND & GAME CARD

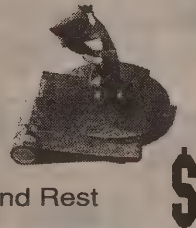
WITH 512K RAM

- Same features as above plus 512K RAM on-board for custom sound capabilities & dynamic effects processing

$169.95

GRAVIS Thunderbird

T-GRIP FIGHTER STYLE JOYSTICK



- 4 Quick Response Buttons
- Rotary Trim Control
- 4-Way Directional Hat
- Contoured Handle with ergonomically designed Hand Rest
- Custom Handle Tension- Adjusts independently in 4 directions

$44.95

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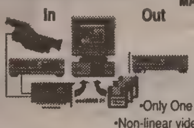
miro VIDEO DEDICATED video CAPTURE CARDS

miroVIDEO DC1 Plus

INCLUDES ADOBE PREMIER & FLYING FONTS PRO 3-D ANIMATION SOFTWARE!

Video Digitizing Directly To Your Hard Disk • Overlays, Titles, Special Effects • Super VHS Quality, PAL/NTSC Video Output

Hardware Highlights:
- Adjusts video filter
- Digital video encoder
- Supports all video formats
- Compatible with all graphics boards
- On-board Motion JPEG compressor



MANUFACTURED IN GERMANY!

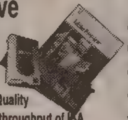
State-Of-The-Art Features:
- No generation loss
- Digital video back up
- Great transition effects
- Instant access to any frame
- Only One VCR for recording & playback
- Non-linear video editing on any Windows PC

$405.95 NEW LOWER PRICE!!

Miro's DC1 Plus Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video Output And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

miroVIDEO DC20

The Most Comprehensive Desktop Video Solution



- Fast Plug & Play Installation
- Capture true 60 fields/sec., 640x480 S-Video Quality
- PCI interface can handle more than twice the throughput of ISA
- Hardware based variable rate, on-the-fly, real-time Motion JPEG compression (user definable from 5:1 to 100:1)
- S-Video out to tape, print to VHS, S-VHS, Video8 or Hi-8 video tape on either PAL or NTSC devices at 640X480, 60fields per second!
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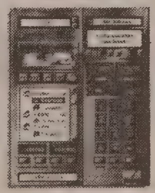

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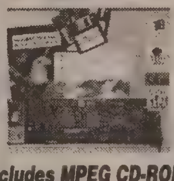

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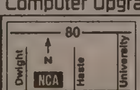

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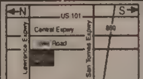

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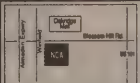

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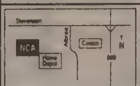

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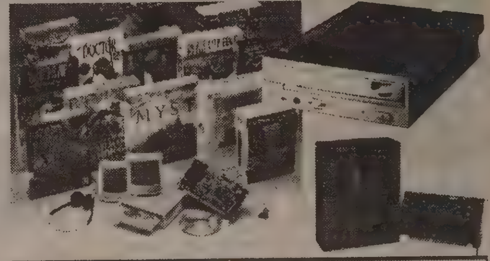

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Wavetable Synthesizer Upgrade

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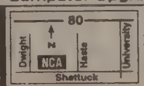

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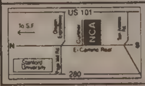

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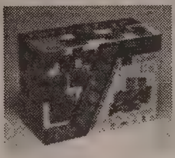

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sed by Microsoft
orts CD-I, Karaoke CD, Video CD v2.0 formats
it CD quality stereo sound
65,000 colors
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% Sound Blaster, AdLib compatible
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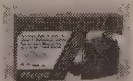

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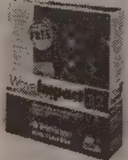

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WAVETABLE SYNTHESIS SOUND CARD

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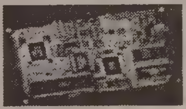

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WAVETABLE SYNTHESIS UPGRADE FOR THE WORLD'S MOST POPULAR SOUND CARDS

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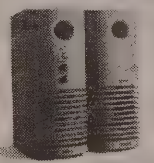

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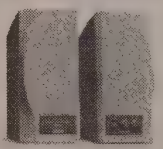

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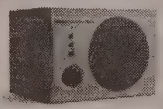

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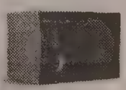

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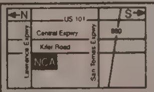

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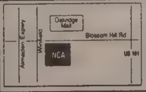

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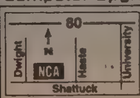

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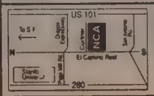

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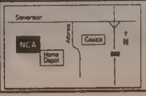

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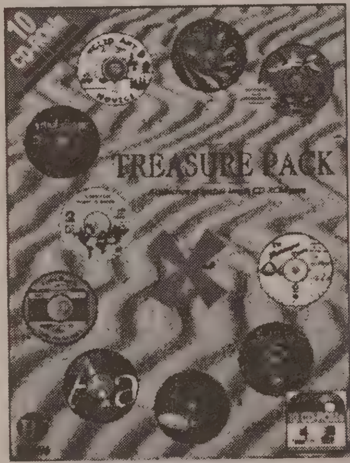
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- Font Pro Vol. 3: *Designer Type*
- Journey to the Planet
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- Who Killed Sam Rupert?

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COMPACT disc

10 CD-ROMs
Macintosh•PowerMac
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Explorer Pack

- Loon Magic
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- epsPRO Vol. 1: *Design Elements*
- FontPro Vol. 2: *Types Of Distinction*
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- *Tony Quinn's* Virtual Galaxy

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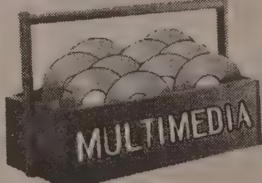
MULTIMEDIA

- The Ultimate Button Collection
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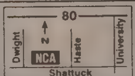
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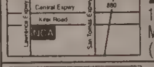
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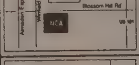
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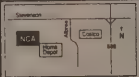
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- **ASTOUND 2.0** MULTIMEDIA PRESENTATION SOFTWARE
  - Slide Sorter Feature
  - Multimedia Effects Built-in to Templates
  - Import Microsoft Powerpoint or Lotus Freelance Presentations
- **SLIDEWORKS SOFTWARE & REMOTE INFRARED POINTING DEVICE**
  - 40 ft. Remote Range
  - Plugs directly into mouse port
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- **MULTIPRO CTV** EXTERNAL SCAN CONVERTER FOR COMPTER TO NTSC (TV) OR S-VIDEO OUTPUT
  - Supports 640X480 resolution, up to 16,7 million colors
  - Simultaneous TV & VGA Monitor Display
  - Freeze & Grab TV Images for graphic uses
  - Screen Display adjustments with Over/Underscan Controls

$354⁹⁵

TV Tuner, FM Radio & Single Frame Video Capture Card

- Watch TV on your computer with 181 channel TV Tuner
- Stereo Jack for connection to Speakers
- 20 Preset FM Radio Tuner
- 100% SoundBlaster compatible
- Toll Free Technical Support

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$259⁹⁵

Pocket Scan Converter PSC-1106

Play PC Games on TV!!
Converts VGA to TV or VCRs
UP to 16.7 Million Colors

- FCC B Certified
- Vertical Refresh 60Hz
- Horizontal Sync. 31.5KHz
- Up to 640X480 Screen Resolution

$99⁹⁵

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NEW SINGLE PASS SCANNER A6000C PLUS

4800x4800 DPI 24-Bit Color Flat Bed Scanner

INCLUDES
- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 4800x4800 dpi through software interpolation

Includes Both PC & Mac Software
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors
- 256 grayscale levels

NEW!

PC or Mac

$409⁹⁵

2400x2400 DPI 24-Bit True Color Flat Bed Scanner

INCLUDES
- **SCSI-II/PC or Mac**
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- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation

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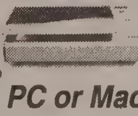
- 256 grayscale levels



A6000C-PC

PC or Mac

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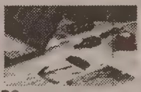
Handheld Grayscale Scanner Kit for Windows

INCLUDES
•SCANNER
ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

•SOFTWARE
-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
-GO-CR - OCR Software
-PhotoStacker Plus - JPEG Image Processing Software with AutoStitch



$109⁹⁵

Handheld Grayscale Scanner

INCLUDES
- ViewScan®/256S
- 800dpi
- 105mm scanning width
- GO-CR - OCR Software
- PhotoStacker™ Plus - JPEG Image Processin Software with AutoStitcı

$69⁹⁵

Handheld True Color Scanner Kit for Windows

INCLUDES
•SCANNER
-ViewScan™ Color 16M A2000C
-Missing Line Compensation
-MagicStitch & TWAIN Compatible

•SOFTWARE
-GO-CR - OCR Software
-PhotoStacker Pro - Image Processing Software

$129⁹⁵

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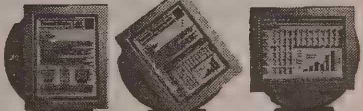
Portrait/1700 For PC & MAC

Portrait
Display Labs

17" SVGA Color PIVOT Monitor



- Pivots between portrait and landscape modes
- Allows full page document views-big 9.3" x 12.4" active display area
- .26 mm dot pitch, 76 Hz. refresh rate for crisp, flicker free images
- Up to 16 million colors, maximum 1280x1024 resolution
- Flat square CRT design
- Tilt & swivel base
- Energy Star and MPR II compliant
- Includes *MacPortrait*™ & *WinPortrait*™ video driver software and necessary cables

Three Year Limited Warranty!

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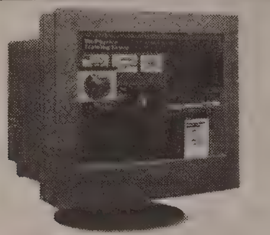
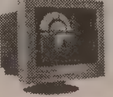
Largest Selection of Video Products...At Low Prices, Guaranteed!*



NEC NEW!

15" 1280 X 1024 SVGA Plug & Play Color Monitor

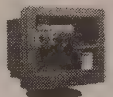
- XV15+
- 1280x1024
- .28mm dot pitch
- 100Hz refresh
- Flat Screen
- Non-Interlaced
- 3 year warranty



$529⁹⁵

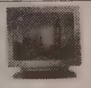
17" 1280 X 1024 SVGA Plug & Play Color Monitor

- XV17+
- 1280x1024
- .28mm dot pitch
- 75Hz refresh
- Flat Screen
- Non-Interlaced
- 3 year warranty



$849⁹⁵

MAG INNOVISION



21" SVGA Color Monitor

- MX21F
- 1600x1280
- .26dpi
- Non-Interlaced

$1599⁹⁵

PRINCETON *Ultra Plus* 17 by MAG

17" SVGA Color Monitor

- 17" SVGA color monitor
- 1600x1280
- .28dpi
- 76Hz refresh rate
- Non-interlaced
- Microprocessor-based digital controls

NEW!

PC or Mac!

$699⁹⁵

AURORAVISION 15"

1024X768 SVGA Color Monitor

- Edge to Edge
- Non-Interlaced
- .28dpi
- Windows 95 Driver

$309⁹⁵

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Accelerating in Graphics & Multimedia

Stealth 64 Video

- Photo-realistic 3D graphics accelerator for Windows® 95
- Fast True-Color 2D graphics accelerator
- 16-Bit hardware Wavetable audio w/32 voices
- Digital video playback with software MPEG
- Two Sega Saturn control pad ports
- Applying full-motion video as a texture to 3D objects allows for unique special effects
- Supports fast games and multimedia applications for Windows 95®
- Plug and Play installation

VLB

2MB VRAM

$289⁹⁵

While Supplies Last!

MATROX MGA POWER GRAPHICS

MILLENNIUM

PCI

- New dual ported WRAM memory technology
- 64-Bit WRAM outperforms 128-Bit VRAM
- Upgradeable to 4MB or 8MB of WRAM
- Supports all popular resolutions from 640x480 to 1600x1200
- Accelerates 256, 65,000 and 16.7 million colors

2MB WRAM **$329⁹⁵**

4MB WRAM **$465⁹⁵**

VISTA PCI

64-bitVideo Graphic Accelerator Card

- 64-bit Ark2000 graphics accelerator
- Resolutions to 1600X1200
- Refresh rates to 90Hz
- 16.7 million colors
- Windows 95, NT & os/2 drivers
- Virtual Desktop

PCI

2MB DRAM Upgradeable to 4MB

$145⁹⁵

Hercules *The Fastest Real-World Windows Accelerator*

STINGRAY

Video Graphic Accelerator Card

- 64-bit graphics processor technology
- Fast, flicker-free refresh to 120Hz
- 24-bit true color in Windows
- Windows Virtual Desktop

PCI

S801-1MB DRAM

$98⁹⁵

GRAPHITE TERMINATOR

Video Graphic Accelerator Card

- The complete 64-bit solution
- Super stable refresh rates up to 150Hz
- S3 Vision 968 Chipset
- High DAC Speed 220Mhz
- World-Class service and support

PCI

GT3240-4MB VRAM

$459⁹⁵

DYNAMITE PRO

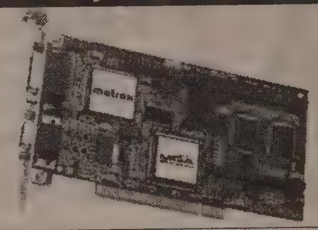
Video Graphic Accelerator Card

- TSENG Labs W32 family accelerator chip
- Resolutions up to 1280x1024
- Up to 16.7 million colors
- Up to 120Hz
- Includes power saving feature

VLB

D701-1MB DRAM

$154⁹⁵



Number Nine Computer Corporation

Excellence in PC Graphics

9FX MOTION 531 PCI/VLB

64-bit Video Graphic Accelerator Card

- Full screen video playback
- 31.5KHz-120Hz Horizontal Sync. Signals
- 56-150Hz Vertical Refresh
- 135MHz max. dot clock

1MB DRAM **$174⁹⁵**

2MB DRAM **$215⁹⁵**

9FX MOTION 331 PCI/VLB

Video Graphic Accelerator Card

- Resolution exchange
- True hardware zoom
- Place windows
- Stop box
- Instant status
- ColorPerfect
- Monitor adjustment

1MB DRAM **$169⁹⁵**

NEW!

2MB DRAM **$219⁹⁵**

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Video Graphic Accelerator Card

- New performance standard w/128-bit accieration
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and Imagine 128 access
- 65,536 colors (16BPP) up to a resolution of 1600x1200 pixels, 16.8 million colors (32BPP) up to 1152x864 pixels
- Refresh rates up to 120Hz
- Simultaneous processing of sixteen 8-bit, eight 16-bit or four 32-bit

4MB VRAM **$879⁹⁵**

ATI TECHNOLOGIES INC. *Blazing performance and true color at an amazing price!*

Graphics Pro Turbo PCI/VLB/ISA

Video Graphic Accelerator Card

- Ultra high resolution
- Vivid true color
- Blazing 64-bit speed
- Enhanced productivity in Windows
- Easily move between high resolution & true color
- Improved motion acceleration

2MB VRAM **$319⁹⁵**

4MB VRAM **$445⁹⁵**

Graphics Xpression VLB

Video Graphic Accelerator Card

- Up to 1280x1024
- 256 to 16.7 million colors
- Instant Windows mode switching
- Up to 75Hz flicker-free display

2MB DRAM **$189⁹⁵**

Win Turbo PCI/VLB/ISA

Video Graphic Accelerator Card

- Up to 1280x1024
- Full acceleration up to 16.7 million colors
- Flicker free up to 100Hz
- WinSwitch instand mode switching

2MB VRAM **$269⁹⁵**

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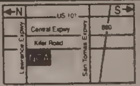

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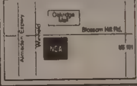

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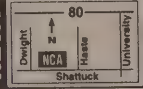

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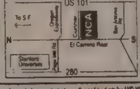

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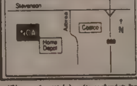

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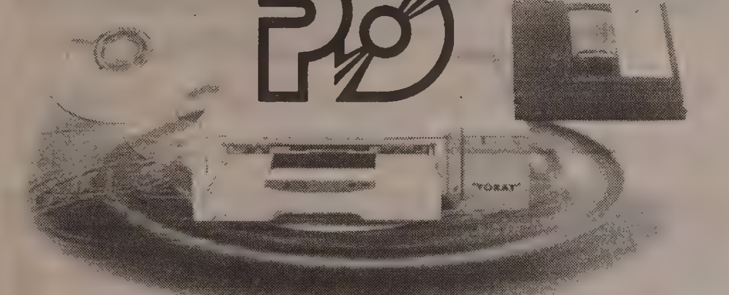

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SCSI-II Phase Change 650MB Rewritable Optical & Quad Speed CD-ROM In a Single Drive!

Unlimited Storage & Backup Capacity

Optical Drive Mode erases & writes in a single pass, CD-ROM Mode is CD-ROM XA ready, MPC2 Compliant & Kodak Multi-session CD compatible

Headphone & RCA Jacks, Caddyless CD-ROM, DOS, Windows, OS/2 & Mac compatible

650MB Rewritable Cartridge $\$49^{95}$

	REWRITABLE SPECS	CD-ROM SPECS
• Transfer Rate	.870MB/s	600KB/s (4X)
•Avg. Seek Time	165msec.	195msec
• Buffer	256K	256K

External with PC & Mac Drivers

$\$624^{95}$

Internal Bare Drive with 650MB Cartridge

$495.95

USRobotics®

The Intelligent Choice in Data Communications

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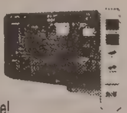
DIGITAL SIMULTANEOUS VOICE & DATA With *True V.34*
- New technology allows data & voice conferencing simultaneously over one phone line
- Work together on Windows documents from PCs in different locations
- Share and update information stored on either PC
- Connect quickly with speed dialing & built-in phone book
- Includes familiar, easy-to-use notebook interface
- Great for interactive gaming
- Includes FREE Internet connection kit
- Includes Intel Pro Share Personal Conferencing Software - a $299 value!



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Sportster ISDN 128K

HIGH SPEED INTERNET ACCESS & TELECOMMUTING
- Multilink PPP combines the two 64 Kbps B-channels of an ISDN BR1 line into a single 128 Kbps channel
- Multiple compression types (Stac®, Microsoft®, & Ascend®)
- Windows® 95 enhancements
- Integrated analog device port
- Full ringing support
- Simultaneous voice & data
- Dynamic voice override
- Integrated NT-1
- TAPI (Telephony Applications Programming Interface)
- Multiple interfaces including NDIS, ODI (for IPX), Packet Driver, WinISDN (for Internet access), Windows® 95 & TAPI interfaces allow Sportster ISDN 128K to be used with today's most popular, off-the-shelf Internet, remote LAN access, and data communications software packages

NEW!

Includes FREE Internet connection kit!

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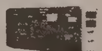
YOUR PERSONAL OFFICE MESSAGE CENTER
- ITU V.32 *bis* 14,400 bps data
- Turn your PC into an advanced voice mail system
- Send and receive faxes directly from your computer
- Fax on demand and remote fax retrieval
- V.42 *bis*/MNP 5 data compression for throughput up to 57,600 bps
- 16550 UART for high-speed Windows connections
- Internal half-card modem for IBM PC and 100% compatible computers

$\$111^{95}$

Sportster 28.8 Vi With Personal Voice Mail

YOUR PERSONAL OFFICE MESSAGE CENTER
- Plug & Play
- True ITU-T V.34 28,800 bps data
- Turn your PC into an advanced voice mail system
- Send and receive faxes directly from your computer
- Fax on demand and remote fax retrieval
- V.42 *bis*/MNP 5 data compression for throughput up to 115,200 bps
- 16550 UART for high-speed Windows connections
- Internal modem for IBM PC and 100% compatible computers

Includes FREE Internet connection kit!



$\$211^{95}$

External .... $\$227^{95}$

14.4 Sportster Si Internal/External	$\$49^{95}/\$59^{95}$
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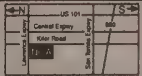

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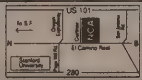

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FAX/MODEMS

MOTOROLA

#1 Name in Communications!

External ISDN Terminal Adapter - Bitsurfr *PRO*

- Multilink PPP provides 115.2K Kb/sec asynch throughput and synch BONDING protocols offer 128K Kb/sec
- Supports two analog POTS PORTS
- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software

NEW!

Bonding for up to 128Kb/s

Windows 95® READY!

$\$359^{95}$

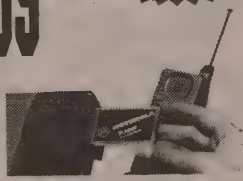
Bitsurfr Internal $279.95
Bitsurfr External $299.95

14.4bps PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps
- Direct connect to Motorola MC² cellular phones manufactured after 6/92

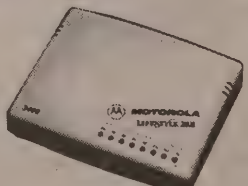
$\$109^{95}$

No Cellular Adapter Required



28.8bps Data/Fax Modem

- Powered by Mototola 68356 24-bit data pump with RISC technology
- True ITU V.34 technology
- High speed data modem - 28,000 bps to 300 bps
- ITU V.34, V.32bis, V.22, V.23, V.21; Bell 212, 103
- High speed fax modem with error correction
- Fully ITU Group III compatible; compatible with all Class 1 fax software packages
- ITU V.42/V.42bis and MNP 2-5 error correction and date compression
- Automatic rate adaption - adjusts the speed up or down for line conditions
- Caller ID, password, callback security and help screen functions
- Hayes compatible commands
- RS232 cable included for MAC version
- No more fuzzy faxes with Clear Fax™
- Asyncronous data rates up to 115,200 bps result in savings on line charges
- Error-free data transfer provides optimum throughput and performance
- Maximizes speed and minimizes errors for the most economical and error-free connection possiblae
- Identifies a caller before you answer the phone with a distinctive ring
- Can record who called while you were out
- Prevent unauthorized connections - supports 2 user defined passwords, and 2 callback numbers
- Online help provides quick command reference with search capability
- Conveneint modem configuration from your keyboard



PC INTERNAL	PC EXTERNAL	MAC EXTERNAL
$\$185^{95}$	$\$199^{95}$	$\$214^{95}$

CELL PHONES & PAGERS

NCA WIRELESS

NCA's New Cellular and Paging Division, Specializing in Phones, Pagers, Accessories and Mobile Communications!

Largest Selection Of Phones & Accessories!

MOTOROLA
MICRO-TAC LITE CELLULAR PHONE

FREE
CIGARETTE LIGHTER ADAPTER

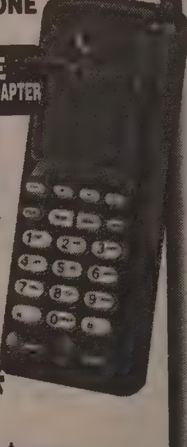
- 110 number memory
- Turbo Speed Dial
- Noise Cancelling Microphone

$\$15^{99}$* PER MONTH OR $383

AT&T 6650
CELLULAR PHONE

FREE
CIGARETTE LIGHTER ADAPTER

- SUPER LIGHTWEIGHT
- Digital & Analog modes allow 2 times the cellular network access
- 125 name memory
- 74 minutes talk time 24 hours standby time



$\$10^{79}$* PER MONTH OR $259

MOTOROLA MICRO-TAC ELITE CELLULAR PHONE WITH BUILT-IN ANSWERING MACHINE

- BUILT-IN ANSWERING MACHINE
- Exceptionally Light-weight
- Choice of nine ringer tones
- Built-in Rapid Charger
- Slim NiCad Battery
- Cigarette lighter adapter
- Headset, Vibracall, Lithium Ion Battery

$\$599^{95}$

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CIGARETTE LIGHTER ADAPTER

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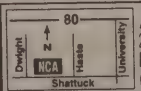

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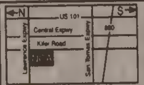

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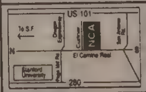

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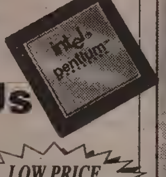
M13

BOARDS, RAM, ETC.

CPU's, MEMORY & SIMMS

Intel CPUs

486DX2-66MHz	Pentium 100MHz
486DX4-75MHz	Pentium 120MHz
486DX4-100MHz	Pentium 133MHz
Pentium 75MHz	Pentium 150MHz
Pentium 90MHz	Pentium 166MHz



AMD CPUs

- AMD486DX2-66MHz
- AMD486DX2-80MHz
- AMD486DX4-100MHz
- AMD486DX4-120MHz
- AMD486DX4-133MHz

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IBM COMPATIBLE MEMORY

1MBX9	70ns	3Chip	$Call
1MBX9	70ns	9Chip	$Call
1MBX9	60ns	3Chip	$Call
1MBX9	60ns	9Chip	$Call
4MBX9	70ns	3Chip	$Call
4MBX9	70ns	9Chip	$Call
4MBX9	60ns	9Chip	$Call
16MBX9	70ns	9Chip	$Call

72-PIN MEMORY SIMMS

2MB 604-70ns/60ns	$Call
4MB 1X36-70ns/60ns	$Call
8MB 2X36-70ns/60ns	$Call
16MB 4X36 70ns/60ns	$Call
32MB 8X36 70ns/60ns	$Call

72-PIN EDO MEMORY SIMMS

4MB 1X32/60ns EDO	$Call
4MB 1X32/70ns EDO	$Call
8MB 2X32/60ns EDO	$Call
8MB 2X32/70ns EDO	$Call
16MB 4X32/60ns EDO	$Call
16MB 4X32/70ns EDO	$Call
32MB 8X32/60ns EDO	$Call
32MB 8X32/70ns EDO	$Call

SIMM EXPANDERS

30 PIN SIMM CONVERTER- converts four 30 pin SIMMS into One 72 pin SIMM! Models A, B, C & D, Low/High profile, Right/Left facing

$24.95 ea

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NEW Lower Prices

PCMCIA Mass Storage For Mobile Computers

Seagate

SunDisk

The Solid Advantage

Call for Latest Pricing

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Memory

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4MBX8	70ns	8Chip	$Call
4MBX8	60ns	8Chip	$Call
16MBX8	70ns	8Chip	$Call

32-Bit Memory for Quadra 800, Centris, LCIII & Power PC's

2MB Module	$Call
4MB Module	$Call
8MB Module	$Call
16MB Module	$Call

MAC MEMORY INSTALLATION

Installation $15
(excluding Powerbooks)

POWERBOOK MEMORY

Call for Latest Pricing

CACHE MEMORY

32X8-20ns	$5.95
8X8-20ns	$Call
8X8-15ns	$Call
32X8-15ns	$Call
64X8-20ns	$Call
64X8-15ns	$Call
256X8-15ns	$Call
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Burst Cache	$Call

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MEMORY MODULES

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486DX MOTHERBOARD PCI

- 3 PCI SLOTS
- USES 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4
- 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET
- INTEGRATED Enhanced IDE

CPU Sold seperately

$109.95

NCA's Premier/PCI

486DX MOTHERBOARD PCI

- 3 VESA LOCAL BUS SLOTS
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- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- ALI CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
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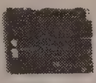

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- ZIF SOCKET
- OPTI CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
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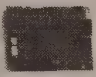

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128K CACHE - $89.95 • 0K CACHE VERSION - $69.95

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- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4

CPU Sold seperately

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128K CACHE - $79.95 • 0K CACHE VERSION - $59.95

Intel ENDEAVOR

75 Through 166MHz Pentium™ PCI With Pipeline Burst 256K SRAM Cache

- INTEGRATED EIDE-I/O
- TRITON Chipset
- 256K Cache
- 0MB EXP. TO 128MB
- Integrated Vibra 16S Audio Controller
- Flash BIOS
- SOCKET 7

NEW!

$299.95

CPU Sold seperately

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75 Through 166MHz TRITON PCI Pentium™

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- 3-PCI SLOTS
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- 256K CACHE
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- USES 72 PIN SIMMS
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- 0MB EXP. TO 128MB RAM

Triton Chipset

CPU Sold seperately

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NCA's High Quality PCI

75 Through 166MHz TRITON PCI Pentium™

w/o Pipeline Burst Cache

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- 256K CACHE
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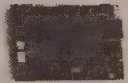

Triton Chipset

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PENTIUM™ 75-THRU 166MHZ PCI WITH ON-BOARD SCSI

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- USES 72 PIN SIMMS
- AWARD BIOS
- INTEGRATED SCSI-II
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- TRITON CHIPSET

CPU Sold seperately

$329.95

NCA's High Quality LIGHTENING

PENTIUM™ 75-THRU 166MHZ PCI WITH ON-BOARD WIDE SCSI

- 3 PCI SLOTS • 256K CACHE
- USES 72 PIN SIMMS
- AWARD BIOS
- INTEGRATED SCSI-II
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- TRITON CHIPSET

CPU Sold seperately

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Intel NEW! Atlantis

75 Through 166MHz Pentium™ PCI With 256K Pipeline Burst & Sound On-Board

- Crystal 4232 Audio Controller & Yamaha OPL3 synthesizer
- AMI BIOS in fish memory device
- Secondary Cache Memory Socket
- Socket 7, 2 PCI/IDE channels hard or CD-ROM drives
- 4 PCI & 3 ISA slots

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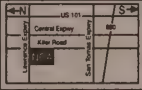

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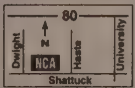

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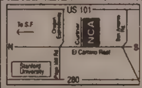

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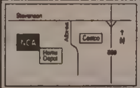

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- Motherboard with Pentium® Chip
- Flash Bios w/Triton Chip
- 256K Pipeline Burst Cache
- 8MB RAM exp. to 128MB (72-pin)
- 850MB Hard Drive, 10ms
- Diamond Stealth 64 PCI Video w/2MB
- Built-in IDE/IO Controller (16550)
- Toshiba Quad-Speed CD ROM Drive, 170ms
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- 15" SVGA .28 Non-Int. Color Monitor 1280x1024 w/Digital Control
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- 15 CD Titles Included

Pentium® 75	**$1320**	**Pentium® 100**	**$1390**
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SUPER MULTIMEDIA PENTIUM®

- Intel Endeavor or Zappa PCI Motherboard
- **256K Pipeline Burst Cache**
- Intel Pentium Processor w/heatsink & fan
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- Medium Case with 230W PS
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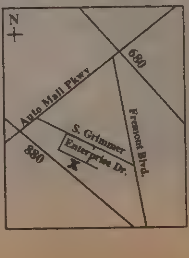

Plugged In *continued from page 156...*

now," said Izora, "but it is constantly changing. We have HTML training classes on Wednesdays. Those who grab it and run with it we ask to join Plugged In Enterprises."

Students involved in PIE must maintain a 3.0 grade point average or risk being dropped from the program. Kuriger, an eighteen-year-old senior at Menlo Atherton High, was so inspired by the skills he learned at Plugged In that he went from a near-zero GPA to a 3.5 GPA and honor roll. "Basically, they told me I had until the next grading period to get my grades up, so I did," he said. "School is much easier for me now." Because his earlier academic records were so poor, Kuriger said he expects to attend a community college first, but has his sights set ultimately on Chico State. He plans to continue working with computers and the net, and eventually wants to dedicate himself to helping families learn together through this technology.

R-E-S-P-E-C-T

Plugged In has few rules. There are no restrictions on who may use the center; anybody can use any of the available equipment. Cooperation is encouraged, and older kids often help out the younger ones. "They even help teach some of the teachers from the local elementary classes," said Izora. "One Plugged In kid showed his old elementary teacher how to use a PowerBook."

Pre-teens are also encouraged to learn together at Plugged In. Associate Director Hector Campos works with fourth and fifth graders who have created an online travel project called "On the Road." These kids work via the Web and videoconferencing with a group of students in Connecticut, putting up Web pages that include video and sound clips, their own text, and pictures created in KidPix. "We encourage them to make their own drawings rather than using pre-made stamps or graphics," Izora said. "It helps them develop their skills and creativity." The kids write stories and poems, create slide shows depicting their dreams, and even put up video clips of spiders.

Celia Du Bose, coordinator and public relations director, checks pages for spelling errors and inappropriate material, but in general Plugged In avoids censoring what the kids choose to put up on the Web. "We are a family program, and we do have to consider our funders. We don't want to get too far out there," Izora said, adding that once the staff explains to them what would be considered off-limits, the kids at the center display good judgment.

One of the reasons Plugged In has been so successful, according to Izora, is its basic policy of respect. "We have a motto here: Respect the equipment, respect the other people, and respect yourself. Everything centers from that," he said. "It really has a tremendous effect on these kids. At school, they are the ones who are written off, so when we offer and assume respect here, it really makes them flip their whole perspective and live up to their potential."

Plugged In is located at 1923 University Ave., East Palo Alto, CA 94303. The phone number is (415)322-1134, faxes can be sent to (415)322-6167. For more information on Plugged In, send email to *info@pluggedin.org*, or visit the Web site, *http://www.pluggedin.org/*. ■

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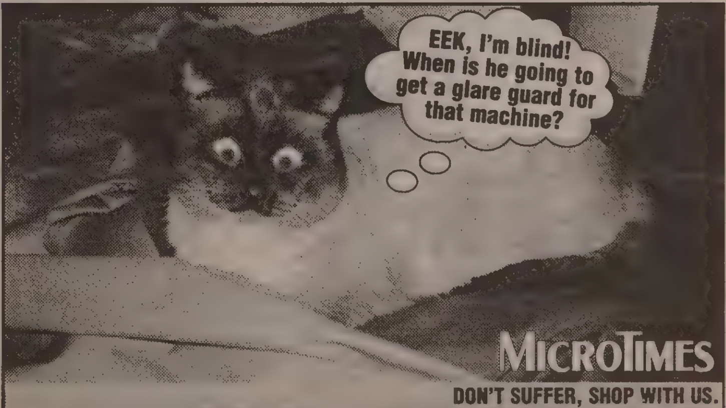
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OS/2 *continued from page 78*

(I would like to thank John Jerrim, Rick Wilkes and Wayne Fulton for their help with this article.) ■

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RESOURCES

OS2CIM v2.01 (freeware)
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CompuServe: ***GO OCIMSUP***

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24 Hour In Cyberspace *continued from page 158...*

photographers, people are encouraged to send in their own stories. "People from around the world are being invited to contribute their own stories and pictures showing the impact in their communities," says Gina Privitere of Against All Odds. "People with access to any commercial online services or the Internet, and with access to imaging hardware and software, are potential contributors."

Student Underground

There will also be a parallel "Student Underground" version of the event, with groups of students around the world photographing their own stories and creating their own Web pages. The best of these will be included on the live site with the professional work. According to Privitere, who is organizing the Student Underground, "As over half of the Internet users are students, we wanted to give them a strong voice on this topic. This project promotes collaboration between students from many different departments and schools—and frankly, we are really interested to see how students feel the Internet is affecting their lives. I think we are going to see a lot of unusual and creative concepts from students, and it will be interesting to see how they execute their ideas."

One such student project is happening at Abraham Lincoln High School in San Jose. Trish Lynch, who is the faculty sponsor and has taught photography for seventeen years and digital photography for the last two years, says that Lincoln High Students have been involved in cyberspace for five years now, with her advanced students researching photographers on the Internet. For the Student Underground project she has twenty-three students researching four areas: hospitals, recreation and local bands, public awareness, and commercial arts. The students will then decide what will make it into their final submission.

"This project is very important in my eyes," says Lynch. "Students have an incredible opportunity to show their work and their knowledge. Often high school students' knowledge is underestimated. A project like this allows them access to contacts outside their own community."

Roger Karraker, the sponsor for Santa Rosa Junior College's efforts for the Student Underground, holds a more general view of the importance of the event: "I think electronic photography and Web publishing will irrevocably change journalism, mostly for the better. Until now, publishing was really the preserve of the rich. Web publishing challenges all that. We've dropped the cost of production by several orders of magnitude. We've made Web publishing just as possible for those who are creative but near-broke as it is for those who are rich. That's an enormous democratizing factor."

The Morning After

A permanent site for the event (at the same URL) will be established in mid-March and a book and CD-ROM will be published in the fall of '96. Since it will be created on the fly in the heat of the moment, one can understand that the real-time site might lack somewhat in polish and depth; and according to Foss, "While it will contain video and audio in addition to still photos and textual material, the live site won't be as graphically rich or multifaceted as the permanent Web site. The long-term site will take greater advantage of the latest Web publishing and imaging technologies. The permanent site also will make considerably greater use of sound and video materials, and other relevant content, that are delivered after February 8." ■

RESOURCES:

24 Hours in Cyberspace
http://www.cyber24.com/

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Power Speaker YSTM10H	$69
Power Speaker YSTM5H	$39
Power Speaker Set w/Subwoofer YST-SS510H	$179
Power Speaker Set w/Subwoofer YST-SS1010H	$209
Subwoofer Speaker YST-MSW10H	$149
DIAMOND	
Diamond 7000 Multimedia Kit PWR w/ 4X CDROM	$379
Diamond 4400 Multimedia Value Kit	$289
Diamond 500 Multimedia Kit	$209
Diamond Ultra 8X Multimedia Kit PNP	$539
HEWLETT PACKARD	
HP SureStore CD-Writer 4020I Internal SCSI-2 650MB Recordable CD Drive(2X record, 4X read)	$1049
HP 1.2GB Fast SCSI II 9.5ms	$299
HP 2.1GB Fast SCSI II 9.5ms	$659

Printers & Scanner

HEWLETT PACKARD	
*DeskJet/DeskWriter 600	$289/289
*DeskJet/DeskWriter 660C	$385/385
*DeskJet 850 (PC or Mac)	$489
*DeskJet 1200C / 1200PS(Special!)#	$759/1299
*LaserJet 5L-FS	$495
*LaserJet 4+ / 4M+(Special!)#	$1359/1889
*ScanJet IIIC for Mac(Special!)#	$849
*ScanJet 4C for IBM	$939
Canon	
*BJC-610E/4100 Color Inkjet	$539/379
OKIDATA	
*OL400e 300dpi / OL410e 600dpi	$349/499
*OL410e/PS 600dpi Post Script 2MB	$739
EPSON	
*Stylus Color Pro 720DPI	$749
*Stylus Color II 720 DPI	$449

Motherboard

ASUSTek	
*486 SiS VLB 256 SV2GX4	$119
*486 Intel PCI/VLB 256 AP4	$155
*486 SiS PCI/VLB 256 SP3 EIDE/IO	$159
*Pentium Intel Triton PCI 256 75~133MHz P55TP4XEG EIDE/IO(16550)	$199
*Pentium P55TP4XEG w/Pipelined Burst	$239
SuperMicro	
*Pentium Intel Triton PCI 75~180MHz P55CMA EIDE/IO(16550) 256 Socket 7	$229
*Pentium Intel Triton PCI 75~180MHz P55CMS EIDE/IO Pipeline 256 Socket 7	$259
Intel	
*Pentium Zappa PCI Triton 75~133MHz	$219
*Pentium Endeaver PCI Triton 75~133MHz Pipeline & SB 16 SoundCard & EIDE/IO	$269
*Intel Triton Chipset MotherBoard PCI, Socket 7 w/256 pipeline burst cache	$179

Mass Storage

COLORADO	
*Colorado 350MB/700MB Int	$129/189
*Colorado 1400 1.4GB int.	$289
*Colorado T1000 800 Int w/Tape	$189
*Colorado T1000 800 Travan Ext.	$259
CONNER	
*Tape.Stor 420MB Int/Ext Wide-QIC	$149/279
*Tape.Stor 850MB Int/Ext Wide-QIC	$189/349
*Tape.Stor 1.7GB Int Wide-QIC	$299
*Tape.Stor 800MB Int/Ext Travan	$179/349
*Tape.Stor 4GB SCSI/IDE Int W-QIC	$399/399
*Western Digital Caviar 31600 1.6GB	$369
*Western Digital Caviar 21000 1.06GB	$239
*Western Digital Caviar 2850 850MB	$199
*Western Digital Caviar 2635 635MB	$185

CDROM & Modem

*USRobotics SportSter 14.4 Int/Ext	$89/109
*USRobotics SportSter 28.8 Int/Ext	$189/209
*USR. SportSter 28.8/14.4 PCMCIA	$349/169
*USR. SportSter 14.4 VI Int/Ext	$109/125
*USR. SportSter 28.8 VI Int/Ext	$219/249
*Practical Peripherals 14.4 Int/Ext	$79/105
*Practical Peripherals 28.8 Int/Ext	$169/199
*SupraExpress 14.4 FaxMod Int/Ext	$79/99
*SupraExpress 28.8 PNP Int	$155
*Zoltrix 14.4K FaxModem Int	$49
*Zoltrix 28.8K Voice/Fax/Data	$149
*Zoltrix 14.4K Voice/Fax/Data Int	$65
*Cardinal 28.8 V.34 Int/Ext	$149/179
*Cardinal 28.8 Voice/fax Modem	$179/209
*NEC 6X Int SCSI OEM CDROM	$389
*Plextor Int SCSI 4X/6X	$295/449
*Toshiba 3701 SCSI2 6.7X CDROM	$329
*Toshiba 5302 4X EIDE CDROM	$145
*TEAC 4X/6X Internal CDROM	$135/199
*Misumi Quad Speed EIDE CDROM	$139

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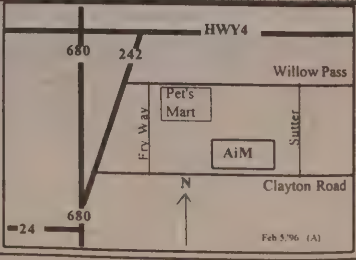

WHO WINS? ENTER

SURE RUN WINDOWS 95

486 Green ISA VLB

- 486 ISA VLB 256K Cache EPA Green Motherboard
- 486 CPU Processor w/ Cooling Fan
- 4MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 850MB Conner CFS850 Enhanced IDE HD
- VLB IDE Controller w/ 2 Serials, 1 Parallel
- Trident 9440 VLB 1MB Windows Accelerator
- 14" ShamRock 1Kx768NI Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Upgrade to PCI configuration for $50

80DX2	$766
100DX4	$787
120DX4	$810
Cy5X100	$879
Cy5X120	$910

Pentium Intel Endeavor 2

- Pentium Intel-Made Endeavor 2 EV2 Triton Chipset PCI 256K Sync Pipelined Cache, 75 to 166MHz CPU w/VRM, upto 512K Pipelined Sync Cache, FastPage/EDO upto 128MB, w/4 PCI BusMaster E-IDE, 2x 16550 UARTS & ECP/EPP, built-in Sound Blaster Vibra 16 w/Line-in/out, MIDI port, WaveTable Socket
- Geniune Intel Pentium Processor w/ Cooling Fan
- 16MB 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- **1.28GB Quantum FireBall Mode 4 E-IDE HD**
- Toshiba FM-5402B QuadSpd IDE 256K CD-ROM
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- **15" Hitachi SuperScan NS1587 1280x1KNI 0.28DP Monitor**
- Premium Digital Medium Tower 230W PS
- **KeyTronic 104 Key Win 95 Keyboard**
- MicroSoft Ergonomic Mouse w/ Pad

** Call for 512K Sync Pipelined Cache upgrades

75MHz	$1695
90MHz	$1781
100MHz	$1804
120MHz	$1849
133MHz	$2021
150MHz	$2053
166MHz	$2287

Pentium Intel Zappa

- Pentium Intel ZP Zappa Triton Chipset PCI 256K Async Motherboard w/4 BusMastering PCI Enhanced IDE ports, 2x16550 UART's & ECP/EPP
- Geniune Intel Pentium Processor w/ Cooling Fan
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 850MB Conner CFS850 Enhanced IDE HD
- Trident 9440 PCI 1MB Windows Accelerator
- 14" ShamRock 1Kx768NI Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Call for EDO Memory Upgrade

75MHz	$1085
90MHz	$1170
100MHz	$1192
120MHz	$1237
133MHz	$1409

P5 Ultra Wide SCSI

- **Quick Pentium P54TSW2 PCI 256K Sync Pipelined Cache w/ 2940UW Ultra Wide 40MB/s Adaptec 7880 Chipset built-in, 75 to 200MHz CPU w/VRM, upto 512K Sync Pipelined Cache using COAST module, FastPage/EDO upto 128MB, w/4 PCI BusMaster E-IDE, 2x16550 UARTS & ECP/EPP, PnP Award Flash BIOS, Alarm Cooling Fan, PS/2 mouse port...**
- Geniune Intel Pentium Processor w/ **Alarm** Cooling Fan
- 16MB 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- **Quantum 2.2GB Capella VP32210SW Fast Wide HD**
- **Diamond 8XI Spd 1200K/s IDE CD-ROM /w Audio Cable**
- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Diamond Stealth64 Video VRAM 2MB 3000 Series
- **17" ShamRock 1280x1KNI 0.28DP Digital Green Monitor**
- Premium Digital Med Tower 230W PS
- **KeyTronic 104 Key Win 95 Keyboard**
- MicroSoft Ergonomic Mouse w/ Pad

** Call for 512K Sync Pipelined Cache upgrades

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40MB/S DTR Ready!

75MHz	$296
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100MHz	$307
120MHz	$312
133MHz	$329
150MHz	$333
166MHz	$357

Pentium 200Mhz PCI

- TMC Pentium Triton Chpst PCI 256K Sync Pipelined Cache Mothrbrd supporting 75 to 200MHz CPU w/ Socket 7 & VRM, upto 512K Sync Cache on CELP COAST FastPage/EDO, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
- Geniune Intel Pentium Processor w/ Cooling Fan
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- **1.28GB Quantum FireBall Mode 4 E-IDE HD**
- **Toshiba FM-5402B QuadSpd IDE 256K CD-ROM**
- Creative Labs Sound Blaster Vibra 16 Stereo
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- 15" ShamRock 1280x1KNI Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

** Call for 512K Sync Pipelined Cache & EDO upgrades

75MHz	$1480
90MHz	$1567
100MHz	$1589
120MHz	$1634
133MHz	$1807
150MHz	$1839
166MHz	$2073

ASUS P6 Pentium Pro

- **ASUS P6 Pentium Pro P/I-P6RP4 w/256K Built-in CPU Cache - Intel ORION DT chipset, w/onbrd BusMaster IDE, HiSpd I/O, FD, PS/2 port, ZIF Socket 8 + VRM, AMI PnP Flash BIOS, FD/EDO 72Pin SIMM upto 512MB**
- **Geniune Intel Pentium Pro Processor w/ Cooling Fan**
- 32MB 60ns 72Pin FP SIMM RAM
- **Adaptec 2940UW Ultra Wide SCSI (40MB/s) Adaptor w/cable**
- 1.44MB Floppy Drive
- **Quantum 2.2GB Capella VP32210SW Fast Wide SCSI HD**
- **Diamond 8XI Spd 1200K/s IDE CD-ROM /w Audio Cable**
- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Matrox MGA Millennium PCI 2MB Window RAM
- **17" ShamRock 1280x1KNI 0.28DP Digital Green Monitor**
- Premium Digital Full Tower 250W PS
- **KeyTronic 104 Key Win 95 Keyboard**
- MicroSoft Ergonomic Mouse w/ Pad

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** Call for EDO upgrades

P6 is here!

150MHz	$5430
166MHz	$Call

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- All complete systems are assembled, jumpers and switches setup/configured, DOS V6.22, Windows V3.11,(or Windows 95) and all included software installed for testing purpose, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 60 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minutes driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty. - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
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rdware Components for your PC Upgrades

erboard without CPU: (Call for CPU Prices)

SA VLB 256K - 3 VLB, upto 128MB & 512KB Cache, Support 30 & Pin SIMM, Award BIOS, PnP 3.3V CPU Suppt	$95
SA PCI 256K w/ E-IDE, onbrd HiSpd I/O, upto 128MB & 1MB che, suppt 72Pin SIMM, Award BIOS, PnP 3.3V CPU Suppt	$145
Pentium 75-200Mhz PCI Sync Pipelined 256K Cache w/ Triton pst, Socket 7 & VRM (Voltage Regulator Module Socket), upto 2K Async/Sync Cache, 4 PCI+3 ISA slots, support Fast Page or O 72Pin SIMM upto 128MB, built-in Bus-Master PCI-IDE interfaces, 2-16550 UARTs, ECP/EPP support 4 IDE HDs, Flash Award ROM NCR BIOS, PnP COAST Socket	$185
P/I-P55TP4XE P5 PCI Sync Pipelined 256K Cache w/Triton pst,75-150Mhz w/VRM P6-Overdrive support, upto 512K Async/ c Cache, 3 PCI+4 ISA+1 ASUS MediaBus slots, support Fast Page EDO 72Pin SIMM upto 128MB, built-in Bus-Master PCI-IDE erfaces, FD, 2-16550 UARTs, ECP/EPP support 4 IDE HDs, PnP Flash ard ROM w/NCR BIOS, PnP COAST Socket	$205
tel Zappa ZP PCI Async 256K Cache w/Triton chpst 75-133Mhz, 3 I + 4 ISA slots, support FP or EDO SIMM upto 128MB, built-in PCI- interfaces, FD, 2 16550 UARTs, ECP/EPP support 4 IDE HDs, PnP sh AMI ROM, APM PowerSaving	$199
tel Endeavor 2/EV2 PCI Sync Pipelined 256K Cache w/Triton ipset, 75-166Mhz, upto 512K Sync Pipelined Cache, 4 PCI+3 ISA ts, support FP or EDO 72Pin SIMM upto 128MB, Socket 7, built-in I-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP support 4 IDE HDs, P Flash AMI ROM, APM Power Saving, Built-in SoundBlaster ra16 16bit stereo sound w/line-in/out,Joystick,WaveTable nnector, COAST socket	$265
tel Atlantis PCI Pipelined Sync Burst 256K Cache w/Triton chpst, egrated 64-bit ATI Mach 64 1MB DRAM (upto 2MB) graphics & ystal audio subsystems, 75-166Mhz & beyond, upto 512K Sync che, 3 PCI+3 ISA slots, support FP or EDO 72Pin SIMM upto 8MB, Socket 7, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, P/EPP support 4 IDE HDs, PnP Flash AMI ROM, APM Power ving, Built-in Sound Blaster Class Crystal+Yamaha OPL3LS 16bit reo sound w/line-in/out, Joystick, WaveTable connector, AST socket	$370
K Pentium P54TS/TSW2 PCI w/ Built-in Adaptec PCI SCSI chipset 0/7880 (AHA-2940/2940UW Ultra Wide) support 50Pin Fast SCSI- 68Pin Fast Wide SCSI-2 & Ultra Wide SCSI (40MB/s Burst!!), Sync elined 256K Cache w/Triton chipset, Socket 7 & VRM, 75- Mhz, P6 Overdrive support, upto 512K Async/Sync Cache, 3 +5 ISA slots, support FP or EDO 72Pin SIMM upto 128MB, built-in I-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP support 4 IDE HDs, COAST Socket, 50pin SCSI + 68Pin Wide AMP hi-denity + FD/ /IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI .0L + complete Adaptec software driver and manual included TS(2940) /P54TSW2(2940UW)	$325/405
Pentium 586 54CEP 512K 90-133Mhz EISA/PCI - 3 PCI/4 EISA (ISA mpatible) slots, ZIF, Intel Mercury chipset, upto to 512MB by Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-master SCSI ports g Adaptec AIC 7870 controller(AHA-2940W equivalent) porting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2 onbrd floppy rts supporting 2.88MB, 2-16550 UARTs, ECP/EPP Parallel port, in SCSI cables & complete software driver	$775
Pentium 586 54CDP Dual 512K Neptune Chipset - 90-133MHz me as above except supporting 2 CPUs	$885
P6 Pentium Pro P/I-P6RP4 motherboard w/ 256K cache on CPU, H 150Mhz P6 CPU & cooling Fan - Intel ORION DT chipset, port 150/166Mhz CPU, 3 ISA+4 PCI slots, w/ onbrd PCI Bus- ster IDE interfaces, HiSpd I/O, FD, PS/2 mouse/Keyboard nnector, ZIF Socket 8, VRM module, Flash AMI PnP BIOS, support EDO 72Pin SIMM upto 512MB	$2455
mouse port connector for motherboard PS/2 mouse port	$15

& Memory: (Prices Subject to Change without notice)

entium Pro 150/166/180/200Mhz	$Call
ium P5-75/90/100/120/133/150/166MHz CPU	$Call
Intel/AMD 486-66DX2/80DX2/100DX4/120DX4/OverDrive	$Call
Cyrix 5x86-100/120DX P5 OverDrive for 486 motherbrd	$Call
256/512K Synchronous Pipelined Cache COAST module	$25/$65
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VLB Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	$18
DTC 2278E VLB Enhanced IDE/FD 2-16550 UARTs + EPP/ECP Controller Supporting Mode3 & 4 E-IDE devices	$27
DTC 2278EB VLB Enhanced IDE/FD 2-16550 UARTs + EPP/ECP w/ BIOS Supporting Mode3 & 4 E-IDE devices even if your old VLB motherboard does not support E-IDE	$43
Adaptec 1522 SCSI-2 Controller	$78
Adaptec 1542CP PnP Bus-mastering SCSI-2 Controller	$180
Adaptec 2940 PCI Fast PCI SCSI-2 Controller	$190
Adaptec 2940UW PCI Ultra WIDE SCSI-2, 40MB/s burst,15 SCSI devices support w/ 50 & 68Pin cable Controller	$280
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External SCSI-2 50Pin Micro-D Adapter for any onboard internal 50pin ribbon cable SCSI interface	$25
FAST WIDE SCSI-2 internal Ribbon Cable, hi-density, 68Pin, 2 connectors / 3 connectors	$25/35
SCSI External Cables Centronic/Micro-D 50/68Pin	$Call
External SCSI Terminator SCSI-2/Micro-D 50/Micro-D 68Pin	$Call
Ethernet NE2000 ISA 16Bit Coaxial/10-Base T/Combo	$27/$27/$30
Intel EtherExpress Pro 10/100BaseT PCI	$165
3COM Etherlink III 3C509B Coax/10-BT/Combo	$99/$99/$110
3COM Etherlink III 3C590 Bus-Mastering PCI 10BT/Combo	$109/$129
3COM Etherlink III 3C595-TX Fast Ethernet 10/100BT PCI	$149

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Diamond Stealth64 Video DRAM 2000 Series PCI 64Bit Graphic Engine S3-765 2MB EDO DRAM Version	$150
Diamond Stealth64 Video VRAM 3000 Series PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$245/395
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Diamond Edge 3D PCI 2120XL MultiMedia Game Accelerator - 3D graphics, 16bit WaveTable Sound, SEGA Saturn Control Pad ports, (SGS Thomas STG2000 chipset) 1MB/2MB DRAM	$255/$335
Diamond Edge 3D PCI 3240XL MultiMedia Game Accelerator - 3D graphics, 16bit WaveTable Sound, SEGA Saturn Control Pad ports, (nVIDIA - NV1chipset) 2MB/4MB VRAM	$405/$565
ATI Xpression PCI 2MB DRAM	$195
ATI Graphic Pro Turbo PCI 2/4MB VRAM	$325/445
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Number 9 Imagine 128 4MB/128-1600 4MB PCI	$625/$825
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17" ShamRock 1280x1KNIx0.28DP Digital Control Low-Radiation Green Monitor	$595
Hitachi NSA SuperScan CM1587M 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$380
MAG Technitron Series Trinitron Tube, Digital Control, 0.25DP, 1280x1KNI, 3yr Manu. Warranty DX15T 15"/DX17T 17"	$475/$835
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Nanao F2-15 15" .28DP 1Kx768@87Hz	[illegible]
Nanao F2-17 17" .28DP 1Kx768@87Hz	[illegible]
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Nanao T2-17 - Trinitron 17" .25DP 1280x1024@80Hz	[illegible]
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Etech Bullet 28.8K Fax+Data Internal 16550 UART	$145
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USR Sportster 28.8K V.34 Data/Fax Internal/External	$176/195
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USR Sportster VI 28.8K Fax w/Persnl Voice Mail Int./Ext	$205/$225
Boca SoundExpression 14.4K V.32Bis Data/Fax/Voice-mail, Speak phone,16Bit Sound Blaster Surround Sound, CD-ROM Intrfce	$155

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Conner 4.0GB TapeStor Travan int. off IDE TSM4000R	$520
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KeyTronic 101 Enhanced Win95 Key U.S. Made	$25
Focus 2001 101 Win95 Key Enhanced Click w/Cover	$29
Focus 8000 111 w/ Calculator	$40
Focus 9000 129 Programmable w/Calculator	$55
MicroSoft Natural Keyboard Win95 Key	$69
NorthGate OmniKey 101NI/102	$74
MS 3-Button Mouse	$8
MicroSoft Ergonomic Serial/PS 2 type	$35/$55
Logitech Mouseman Serial/PS 2 type/Cordless	$45/$65/$85
MS DOS 6.22/Windows V3.11/WFWG V3.11	$45/45/65
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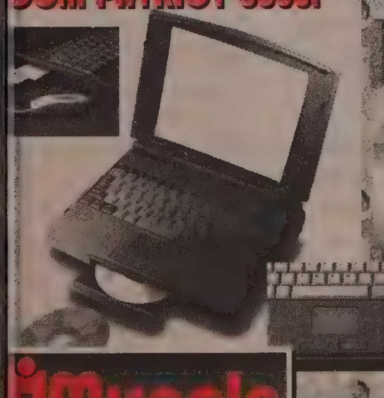

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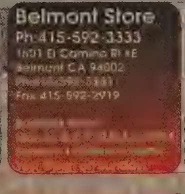

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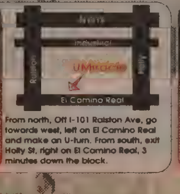

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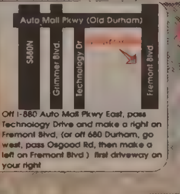

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MULTIMEDIA 101

Pop Goes The Weasel

Throwing Stones, Enjoying Homegrown

In This Section:

- **Multimedia 101**
  Pop Goes The Weasel
  Throwing Stones, Enjoying Homegrown
  By Jonathan E. 232
- **Amiga**
  Killer Tracks With TuneBuilder
  Making The Music Fit Your Video Is Easier Than Ever
  By Douglas J. Nakakihara..........242
- **Fractal Painter 4.0**
  SuperNatural Media
  By Tony Reveaux 244

This column examines a couple of CD-ROMs from the musical world. The first, *Voodoo Lounge* from the well-known Rolling Stones, is—well, if you've been tempted to check it out, reading what I have to say about it might save you $39.95. The second, *Homegrown Fantasy* from the relatively unknown Zion Train, is worth blowing your bread on.

VOODOO DOODOO

The Rolling Stones began over thirty years ago paying heartfelt homage to black American blues and R&B. Since then, they've zigged and zagged a bit, but have basically evolved into a reliable music-making machine and corporate entity, still with an ear to the streets and always aware of new opportunities. They've gained the abilities to mount state-of-the-art live shows, occasionally come up with some exciting music of their own, and make a ton of money.

Surprisingly, they've always managed to eventually find, if not always walk upon, the fine line between utterly wretched, self-destructive excess and stereotypical showbiz schmaltz. Along the way, the Stones have pretty much trademarked a sort of sleaze-in-your-face attitude of dabbling in the seamier sides of life, along with the darker end of metaphysical exploration.

But, if nothing else, the Rolling Stones earn some degree of respect for longevity and professional survival whatever you may think of their music.

All of which makes their *Voodoo Lounge* CD-ROM both puzzling and explicable.

Explicable because a CD-ROM is obviously a new business opportunity; thousands may well buy it whether it's any good or not, and much of it is simply a matter of repurposing what's already been produced for other markets and purposes. *Voodoo Lounge*'s whole scenario fits within the Stones' trademark of rarefied loose and luxurious sleaze edged with dark spiritual menace—thus, it's not going to mess with the franchise. Hey, what's to lose?

What's to lose is the puzzling aspect of *Voodoo Lounge*. It is just not up to the usual production standards of the Rolling Stones and is nowhere near state-of-the-art even by multimedia's primitive standards. If nothing else, a good show is expected from the Rolling Stones. Although there is good content buried within the shell of the CD-ROM, the CD-ROM itself isn't a good show.

It's not so much that the Stones are always leaders, but usually when they copy or steal, they do

BY JONATHAN E.

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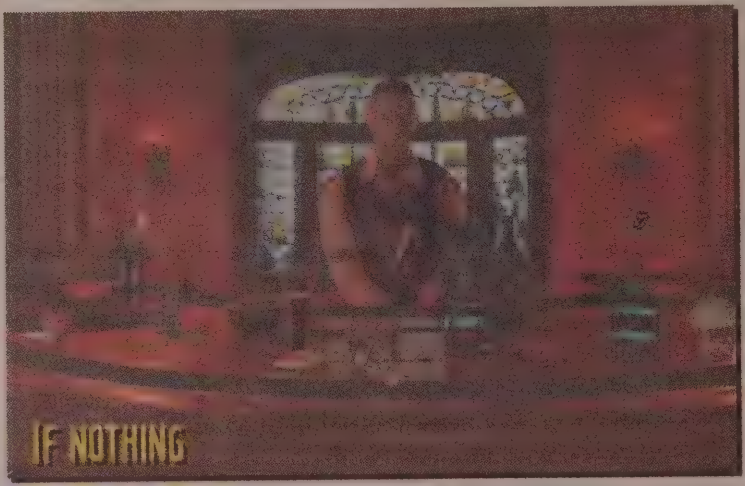
so from good sources and come up with some semblance of feeling for what they're doing. With *Voodoo Lounge*, they cop so shamelessly from the disastrous *Prince Interactive* CD-ROM that one has to ask if they have the faintest clue about what they're trying to do.

In addition, the CD-ROM suffers from plain old sloppy production, especially in the sound and video editing. True, the Stones made some aspects of sloppy production into an artform decades ago, but it was *good* sloppy production and it rocked. *Voodoo Lounge* doesn't rock.

So what's to lose is an important, if not the most important, part of their reputation—their rocks.



IF NOTHING ELSE, A GOOD SHOW IS EXPECTED FROM THE ROLLING STONES. ALTHOUGH THERE IS GOOD CONTENT BURIED WITHIN THE SHELL OF THE VOODOO LOUNGE CD-ROM, THE CD-ROM ITSELF ISN'T A GOOD SHOW.

SYMPATHY FOR THE DEVIL

Voodoo Lounge is not entirely bad once you're past the juvenile attempts at being wicked and provocative. If you find your way to the VIP Lounge, which involves picking up one of those virtual laminated passes (in this case it's ridiculously easy to do), you can watch performance videos of some of the original bluesmen who inspired the Stones. Great stuff and important musical history.

There are also brief written descriptions and voiceovers from Keith Richards about their musical forefathers, including Robert Johnson, Elmore James, Buddy Guy, Big Bill Broonzy, Hank Williams, Howling Wolf, Muddy Waters, Otis Redding, Son House, and one foremother, Koko Taylor. To the serious student of the blues, there won't be much new here—but the average thirteen-year-old (about the age this whole thing seems pitched to) may have his (and it's pitched to guys) eyes opened to a whole new musical world. Richards' continuing admiration of these singers and players from what is now a world of the rapidly receding past is very evident, and is by far the most emotionally resonant portion of *Voodoo Lounge*.

Some of the other content is by no means bad, although I suppose it would depend on your taste and liking for the Stones. There's some insight into their history to be derived from what they say about each other in various interview spots. The music and videos, once they're found after staggering around the Lounge, will appeal to Stones fans and others of that ilk. You can reduce the staggering around by accessing a map, which will sometimes—but not always—allow you to teleport to where you want to go.

As far as multimedia technique is concerned, *Voodoo Lounge* uses plenty of randomization. You'll rarely get the same response twice when you click.

There are different opening sequences. This is both good and bad. At times, it keeps the experience fresh—well, as fresh as you can expect from a slowish CD-ROM with limited worthwhile content. It's also damned irritating if you want to check a particular piece of video or rehear a specific comment that Richards makes about one of those old blues guys.

Strangely, *Voodoo Lounge* can be persuaded to work as a screensaver, although it won't come on after you've been away from your machine for some amount of time, so you have to set it up each time. The VoodooRaver is one of those visual toys that lets you mess, or mouse, around with various graphics as a choice of music plays. You can select the psychedelically shifting background, while several foreground graphics can be toggled for trails, set to move around the screen in various patterns or follow the mouse. As you move the mouse, the controls disappear at the center of the screen and reappear as the mouse nears the edge. So, set it up and walk away, the pixels will dance! It's kind of fun just to fiddle around with and might even work as a standalone, lower-priced product.

The surround graphical environments of the Lounge itself will also refresh your screen if you leave the cursor on the left or right edge of the screen, which will cause you to pan continuously through 360 degrees. Don't look at it for too long, however, because you'll get dizzy.

WHEN THE WHIP COMES DOWN

Obviously enough, I don't think *Voodoo Lounge* is worth its price tag of $39.95—or even close to that. Although its use of randomization makes for a different experience each time you use it, we're talking pretty minor differences, like whether Mick Jagger greets you at the gate. Overall and charitably, I figure that anyone who's not a rabid fan but has some interest might be able to futz around within it for perhaps three hours before being driven screaming mad by boredom. A rabid fan might last a bit longer—or maybe less, if unsympathetic to the inherent limitations of CD-ROM compared to a live show or plain old audio without the supposed benefits of 3-D immersive-environment multimedia. This is just not a good deal compared to other forms of entertainment.

Ultimately what *Voodoo Lounge* does for me is to bang a few more unneeded nails into the coffin of the whole concept of mousing around through a fake environment to get at content. Give me a pull-down or pop-up menu; I'm not fussy! Just let me get at the good stuff without the endless delay and stupid role-playing.

The role-playing in *Voodoo Lounge* is particularly stupid, consisting of a lame backstage-type

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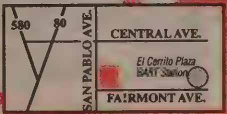

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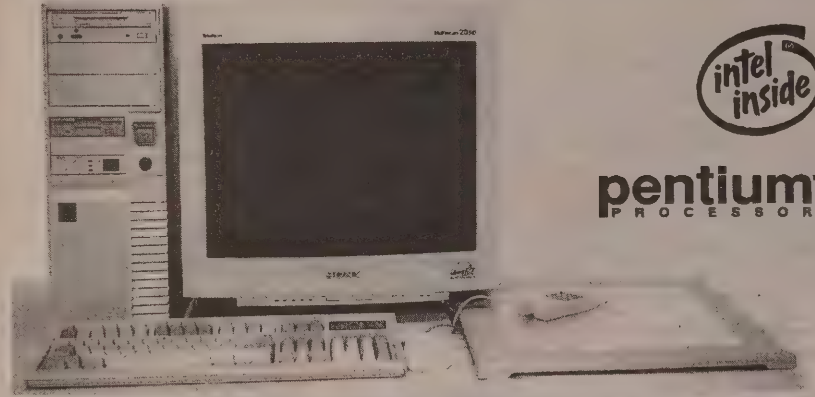

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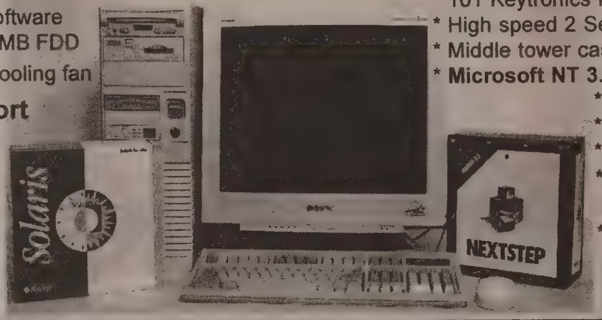

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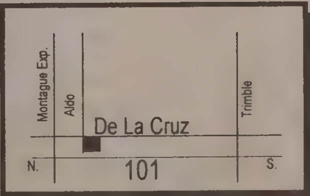

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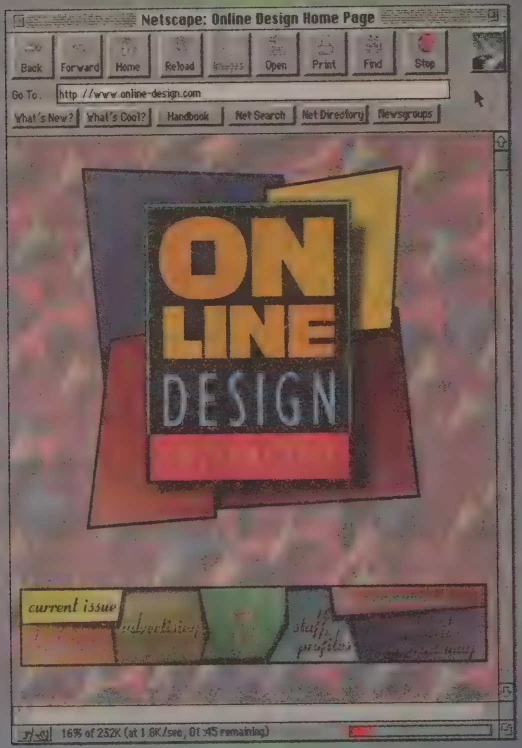
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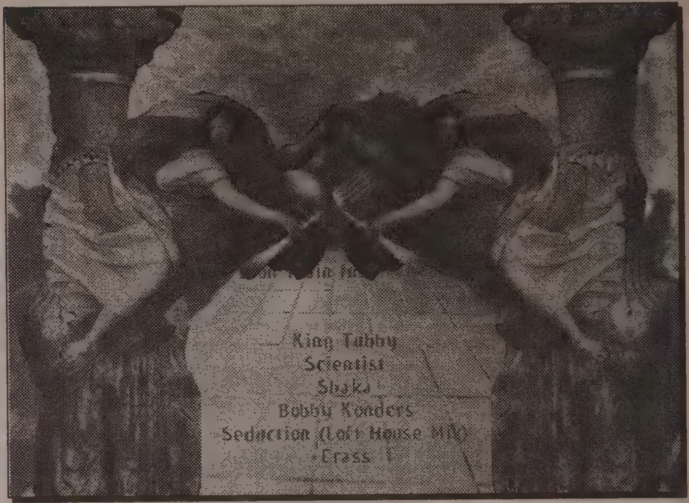
MULTIMEDIA 101 *continued...*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atmosphere hanging with the boys and their groupies, dilly-dallying with the sort of sexual innuendo that adolescent boys or older folks with arrested development find titillating, but that ultimately is a pretty shallow and unsatisfactory way of relating to people, even in fantasy. The exploitation of voodoo is basically insulting to the reality of the African diaspora syncretic religions such as vodun, but with the Stones' long history of dabbling in such things for the shock value, I don't suppose we can expect much else.

> HOMEGROWN FANTASY IS ONE OF VERY FEW CD-ROMS THAT REMAIN INTRIGUING FOR LONGER THAN AN HOUR OR SO.

The atmosphere is not helped by several technical considerations. First, it looks terrible—gloomy and grainy like you're on bad drugs, but due, I think, to the compromises that come with slut hybrid disks. Certainly a specialized Macintosh disk can look a lot better. Secondly, almost all the characters are animated stills rather than video, and look plain ridiculous. Thirdly, much of the sound is looped, with fairly short loops. Sorry, but the music of the Stones just doesn't work that way; it's intensely irritating within about ten seconds.

And lastly as far as atmosphere goes, but not really a technical issue except that more figures would have raised the complexity of design and animation—if you went to a club that was as empty as the *Voodoo Lounge*, you'd probably leave pretty fast 'cos the place was dead. Kind of ironic, isn't it?

GET ON BOARD

Zion Train's *Homegrown Fantasy* CD-ROM has some of the qualities I complained about above. Navigation and finding what you're interested in are both—well, to be charitable, I might say "intuitive," and you have to use lots of fine-tuned intuition. "Random" might be a more accurate description, although after a while you can get some idea of what's likely to happen when you click on something. The use of rollovers and changing cursors would have been a distinct improvement.

However, if you take the view that the journey rather than the desti-

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nation is the point, *Homegrown Fantasy* is surprisingly enjoyable. What makes it so is a combination of lack of pretension (and the Stones fell down badly with overwhelming pretension), excellent graphics, music that works when looped, a delightful combination of light-hearted playfulness and political seriousness along with a mixture of information about Zion Train and a wide variety of other subjects from frogs to football (soccer) matches, from toads to taxes. All told, we get a reasonably deep idea of what Zion Train's worldview is.

Much of what's within *Homegrown Fantasy* is a hodgepodge of tips and info snippets about music and sound; the impressive thing is that these are well integrated with political and social issues, as well as with a strong ecological slant. In fact, much of the information on sound and music goes beyond snippets to become fairly deep treatments of some esoteric aspects of the use of sound. I only wish I could feel confident about finding it again quickly, however enjoyable the search.

Homegrown Fantasy is, however, a CD-ROM I'm likely to go back to once I've finished writing about it, and that is a rare accomplishment. Right now I have no idea how much of it I've managed to uncover, but if the various bits of publicity material are accurate (and one should never count on that) I suspect there's a fair amount I haven't seen. Overall, *Homegrown Fantasy* is one of very few CD-ROMs that remain intriguing for longer than an hour or so.

Homegrown Fantasy uses a clever technique that partially hides the proverbial slowness of CD-ROMs. It throws one of many interesting facts on the screen while searching for and loading the next segment you want. Unfortunately, after a couple of hours, this aspect of the CD-ROM became repetitive, presenting things I'd seen as many as three times before.

The music is a contemporary blend of dub, ska, ambient, and more techno sounds—definitely one of the more inspiring and happening blends from the young England of today. There are some interactive aspects to it in that clicking in various places will trigger samples. This tends to be at the more ambient end of things, but it's clear that Zion Train has the right attitude to create more interactive works in the future.

A notable fact about *Homegrown Fantasy* is that it was made relatively quickly and relatively cheap, with a lot of the work done by Zion Train themselves, which is surely why it communicates their attitudes so well. It's also reasonably priced at $29.98 for a double pack, which includes an audio-only *Homegrown Fantasy*; the CD-ROM alone is about $20. There are also usable AIFF samples and clip art as well as a version of their Web site on the CD-ROM. If you want to see an imaginative and mostly successful take on CD-ROM, this is definitely one to check out. ■

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RESOURCES:

Notes on Resources:
Basically I would expect readers to find these titles in the stores.

Voodoo Lounge
Virgin Interactive
(714)833-8710
http://www.stonesworld.com

Homegrown Fantasy
Mesa/Bluemoon
209 E. Alameda Ave., Ste. #101
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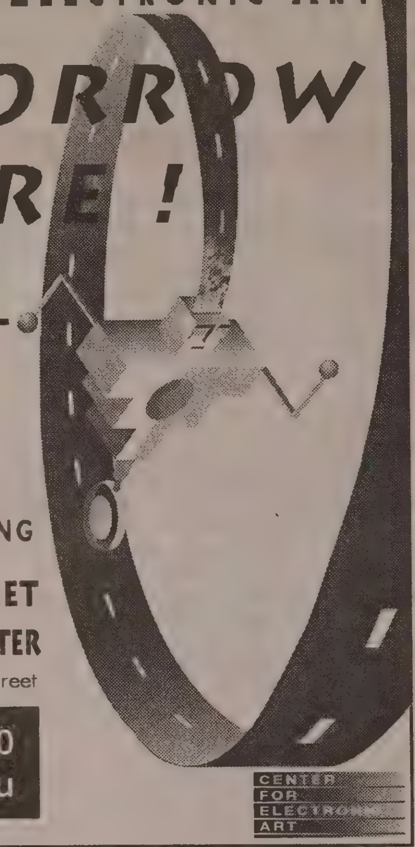

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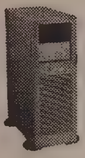

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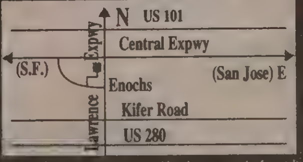

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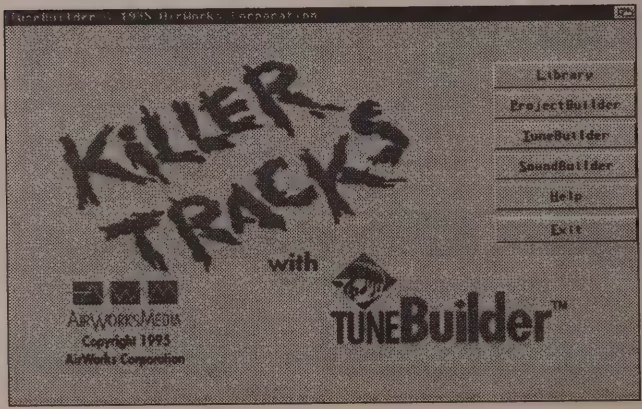
As most people know, the human senses often work in pairs. What would taste be without smell? By the same token, what would sight be without hearing? Thus, a bad audio track can destroy even the best visual production. If you have cable TV, watch some of the commercials for local businesses. I'll bet that at least some of them suffer from lousy audio. Even an all-audio medium like radio requires quality background music.

Unfortunately, it is usually cost-prohibitive to have a custom soundtrack recorded; prerecorded stock music is often the only affordable choice. Although this provides a high-quality professional sound, it is rare for the desired piece to be exactly the right length. It's usually necessary to manually edit and mix the audio tracks.



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With AirWorks' TuneBuilder, prerecorded stock music has been taken to a new dimension. The first item in TuneBuilder's feature list is "Automatic Self-Editing." All you need to do is select a piece of music and indicate the desired length. TuneBuilder will automatically create a custom edited version for the specified duration! It seems like magic.

TuneBuilder will not work with just any CD. Special encoding is required. AirWorks offers its own library called Arpeggio and is licensing the technology to a growing list of third-party music library providers. It seems to be catching on like wildfire. Interestingly, TuneBuilder began as a means to demonstrate Arpeggio.

> You can manually modify any song version by adding, rearranging, or deleting blocks. You can also build a new version entirely from scratch.

KILLER TRACKS

For this review, I received DML (Digital Music Library), a three-volume "intro-pack" from Killer Tracks, one of the premier stock music providers in the industry. DML has a nice variety of music, as well as a few sound effects, and the quality is superb.

Killer Tracks' music libraries span 140 CDs, all encoded for TuneBuilder, with seventy more on the way. However, it is important to note that currently only the DML CDs (and Arpeggio) are available in ISO 9660 format. Other

continued on page 252

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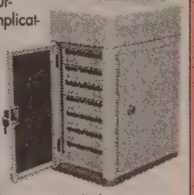

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Fractal Painter 4.0

SuperNatural Media

Great painters like Da Vinci, Renoir, and Turner were not wedded to their materials because of chronic substance dependencies on turpentine and linseed oil. The combination of oil-based pigments spread and marked on stretched canvas was simply the best developed platform available for the physical manifestation of the visual imagination.

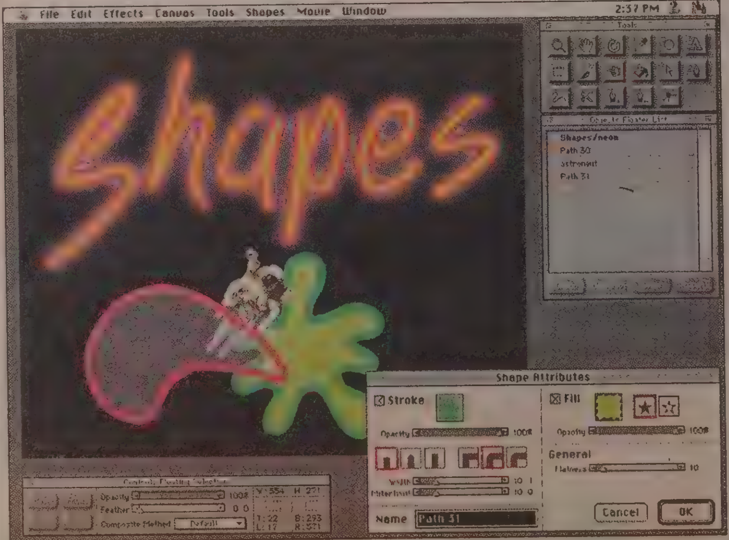
Up until the late nineteenth century, paints were created and mixed from scratch, and brushes built by hand. When oils became commercially available packed in tubes, landscape painters enjoyed the same rush of freedom as would be felt by the first laptop users today.

THE DIGITAL CANVAS

With Fractal Painter and Adobe Photoshop, the digital canvas has reached a high state of utility and sophistication. Both were developed on the Macintosh and are now available for Windows as well.

In their present iterations they both possess so many tools, features, capabilities, variations, and applications that no one can exhaust all of their possibilities. If forced to choose which one to bring to that desert island on your laptop, the answer would have to be: Get two islands.

The chapters in the Fractal Painter tutorial sum up application areas for the package: Painter for Painting, Painter for Photographers, Painter for Mosaics, Painter for Designs, Painter for Collage, Painter for Illustrators, and Painter for Web Authoring.



Shapes/neon
Path 30
astronaut
Path 31

☒ Stroke Opacity 100%
☒ Fill Opacity 100%
Width 10.1
Miter limit 10.0
General Flatness 10
Name Path 31
Opacity 100%
Feather 0.0
Composite Method Default
W: 354 H: 271
T: 22 B: 293
L: 17 R: 371

Fractal Painter's software architecture has been designed to support a "natural media" look and feel; it produces results that match the intent. Its toolset emulates traditional, even ancient, painting, drawing, and marking instruments. Under brushes, you can choose among pencils, chalk, charcoal, pens, felt pens, crayons, airbrush, brush, artists, watercolor, eraser, cloner, water, liquid, burn, and dodge. Each one of these instruments has sub-menus of many variations, such as different weights of lead in the pencils and types and textures of brushes.

As all of these tools are regarded as brushes, their characteristics and performance can be modified under the wide range of brush controls. Even humble tools like charcoal and crayon can change the densities, spacings, textures, and character of the strokes. You can create custom brushes,

continued on page 272

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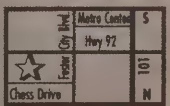

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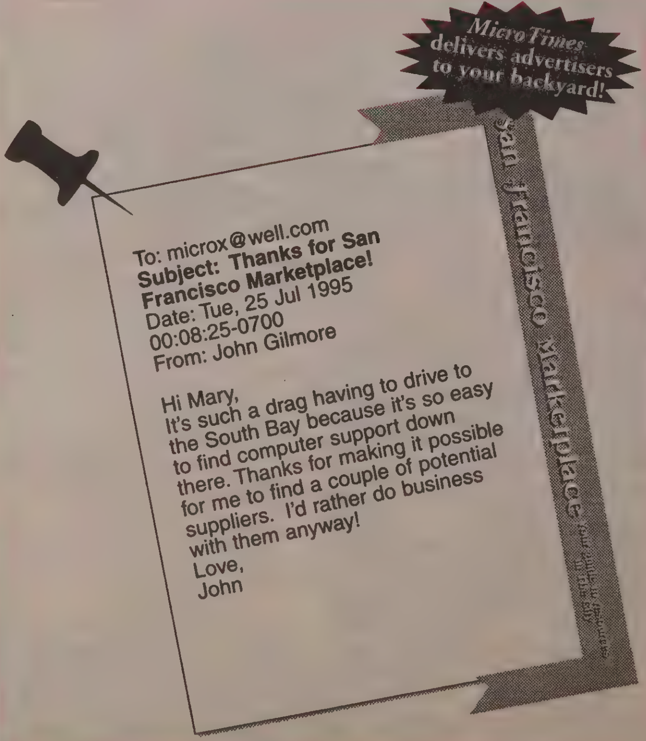
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•NEC XP21 21" 1280x1024 76Hz	$1945
•NEC XP21 21" 1600x1280 76Hz	$2299

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VLB Motherboard w/256KB Regular Cache
4 MB Main Memory
1.44 MB (3.5") Floppy Drive
540 MB Hard Drive
1MB Windows Accelerator Video Card
14" SVGA N.I. Monitor
101 Enhanced Keyboard + MS Compatible Mouse
16 Bit Stereo Sound Card
Double Speed MPC Photo CD ROM Drive
(250ms Access , 300 KB/Sec Transfer)
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AMD 486DX2-66 MHz......	$889
AMD 486DX2-80 MHz.....	$899
AMD 486DX4-100 MHz...	$919
AMD 486DX4-120 MHz...	$949
Cyrix 486DX2-66 MHz.....	$889
Cyrix 486DX2-80 MHz.....	$899
IBM 486DX2-80 MHz......	$869
Intel 486DX2-66 MHz.....	$939
Intel 486DX4-100 MHz...	$969

VESA LOCAL BUS SYSTEM

Mini Tower w/230 Watt P. S.
3 VESA Slots Motherboard w/256KB Regular Cache
4 MB Main Memory
2 FD / 2 HD IDE Controller
1.44 MB (3.5") Floppy Dr
540 MB Hard Drive
32 Bit VL-Bus Video Card w/ 1 MB
14" SVGA ,N.I. Monitor
101 Key Enh. Keyboard

AMD 486DX2-66 MHz...	$769
AMD 486DX2-80 MHz...	$779
AMD 486DX4-100MHz..	$799
AMD 486DX4-120 MHz.	$829
Cyrix 486DX2-66 MHz...	$769
Cyrix 486DX2-80 MHz...	$779
IBM 486DX2-80 MHz....	$799
Intel 486DX2-66 MHz...	$819
Intel 486DX4-100 MHz.	$859

PCI-Bus SYSTEM

Mini Tower w/230 Watt P.S.
3 - PCI Slots Motherboard w/ 256KB Regular Cache
4 MB Main Memory (72 Pin SIMMS)
1.44 MB (3.5") Floppy Dr
540 MB IDE Hard Drive
1 MB PCI Video Card
16 Million True Color Display
14" SVGA , N.I. Monitor
101 Key Enh. Keyboard

AMD 486DX2-66 MHz......	$799
AMD 486DX2-80 MHz......	$809
AMD 486DX4-100 MHz....	$829
AMD 486DX4-120 MHz....	$859
Cyrix 486DX2-66 MHz......	$789
Cyrix 486DX2-80 MHz......	$809
Intel 486DX2-66 MHz......	$849
Intel 486DX4-100 MHz....	$889

PENTIUM POWER!!

Mini Tower w/230 Watt P.S.
3 - PCI Slots Motherboard w/ 256KB Regular Cache
8 MB Main Memory (72 Pin SIMMS)
1.44 MB (3.5") Floppy Dr
1.08 GB Hard Drive
PCI - 1 MB Video Card
16 Million True Color Display
15" Flat Screen Monitor
101 Key Enh. Keyboard

Pentium 75 MHz...........	$1159
Pentium 90 MHz...........	$1259
Pentium 100 MHz..........	$1359
Pentium 120 MHz..........	$1439
Pentium 133 MHz..........	$1589

HIGH END PENTIUM ULTRA SYSTEM

Medium Tower w/230 Watt P.S.
Intel Triton Chipset Motherboard w/256KB
Pipelined Burst Cache - *Able to support future Pentium CPU up to* ***200 MHz***
CPU Cooling Fan w/ Heat Sink & **Alarm**
16 MB EDO Memory
1.6 GB Hard Drive (256k buffer)
Diamond Stealth Video 64 PCI - 2 MB VRAM
1.44 MB (3.5") Floppy Dr
PCI IDE Built-in;Fast I/O ports
Sound Blaster Awe 32 Sound Card
Diamond 8-Speed IDE CD-ROM Drive
300 Watt PMPO Multimedia SRS Speakers
17" MAG SVGA Monitor
Keytronic Win95 Keyboard
Microsoft Ergonomic Mouse

Pentium 90 MHz............	$2959
Pentium 100 MHz..........	$3059
Pentium 120 MHz..........	$3169
Pentium 133 MHz..........	$3339
Pentium 150 MHz..........	$3599
Pentium 166 MHz	$3869

Best Deal PENTIUM SCSI MULTIMEDIA

Medium Tower w/230 W P.S.
Intel Triton Chipset Motherboard w/256KB
Pipelined Burst Cache - *Able to support future Pentium CPU up to* ***200 MHz***
CPU Cooling Fan w/ Heat Sink
16 MB EDO Memory
Adaptec 2940 SCSI PCI Controller
1.44 MB Floppy Drive
1.08 GB Quantum SCSI Hard Drive
ATi Win turbo Mach 64 PCI - 2 MB VRAM
Toshiba 6.7X **SCSI** CD-ROM Dr
Sound Blaster 16 Sound Card
240 Watt Multimedia Stereo Speakers
15" SVGA, Digital Monitor
Microsoft Natural Keyboard
Microsoft Mouse

Pentium 100 MHz .	$2609
Pentium 120 MHz ...	$2679
Pentium 133 MHz .	$2829
Pentium 150 MHz .	$2909
Pentium 166 MHz .	$3209

NexGen P-100 Multimedia System

NexGen NX586 P-100
PCI-Bus w/CPU Fan & 256KBCache
Mini Tower
8MB Main Memory
PCI-1MB Video
1.08GB Hard Drv
Onboard BusMaster
PCI IDE & Super I/O
1.44 MB Floppy Drv
Mitsumi **4X** CD-ROM
16 Bit Sound Card
240W StereoSpeakers
15" SVGA Monitor
101 Keyboard
MS Comp Mouse

$1459

»system Upgrade Options«

8 MB to 16 MB Memory (72p)...........Add	$229	Mini to Medium / Full Tower.......... Add	$30 / 50
8 MB to 32 MB Memory (72p)...........Add	$705	VLB to PCI M.B. w/ PCI Video...... Add.......	$35
16 MB to 32 MB Memory.................Add	$485	256 KB to 512 KB Cache............. Add......	$150
540 MB Hard Drv. to 850 MB (IDE)..Add	$45	14" SVGA,N/I to 15"/17"..........Add	$109 / 350
540 MB Hard Drv. to 1.0 GB (IDE)...Add	$175	15" SVGA to 17"......................... Add.....	$250
850 MB Hard Drv. to 1.0 GB (IDE)....Add	$85	486 CPU Cooling Fan.................. Add......	$10

!! Ask for other Upgrades !!

Microsoft Windows 95 - ***Full Version*** **with System Purchase only**

CD-ROM: $129 / 3.5" HD Floppy Disks: $135 Upgrade Version CD ROM (Retail Box): $79.99

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Sound Blaster 16 IDE	$89
Sound Blaster 16 Multi-CD..................	$76
Sound Blaster 16 Multi-CD w/ ASP....	$119
Sound Blaster 16 SCSI	$99
Sound Blaster Awe 32 (up to 28MB).....	$219
3D Supersound 16 IDE... LATEST !!	$89
Creative Lab **ASP Chip** - Retail Box.....	$46
Sounds Easy Pro16 Plus	$49
Media Vision ProSonic 16 SCSI (OEM)......	$69

MEMORY

30 Pins	1 MB / 4 MB SIMM............	$32 / 119
w/parity	1 MB / 4 MB SIMM............	$34 / 129
72 Pins	4 MB / 8 MB SIMM..........	$109 / 229
	16 MB / 32 MB SIMM........	$448 / 929
w/parity	4 MB / 8 MB SIMM.........	$129 / 259
	16 MB / 32 MB SIMM......	$519 / 1089
EDO	4 MB / 8 MB SIMM..........	$119 / 249
	16 MB SIMM................................	$529

30 Pin to 72 Pin **SIMM Modular Converter**. $33.99

MOTHERBOARD + CPU

486 DX2 & DX4 VLB MOTHERBOARD w/256KB CACHE

AMD DX2-66 / 80 / DX4-100 / DX4-120 MHz..................	$99 / 109 / 149 / 169
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IBM DX2-80 MHz..	$139
Intel DX2-66 / 75 / DX4-100 MHz..................................	$129 / 159 / 169
Upgrade From VLB to PCI Architecture................................	Add $20.00

Intel Pentium Processor PCI MOTHERBOARD w/256KB CACHE
(with 4-PCI, 4-ISA, Built-in EIDE, High Speed 16550 i/O)

Pentium 75/ 90/ 100/ 120/ 133 MHz-SIS Chip Set........	$289 / 369 / 419 / 489 / 649
Pentium 75/90/100/120/133 MHz-Intel Tritiion Chipset.......	$319/ 409/ 439/ 519/ 679

Intel ZAPPA PCI MOTHERBOARD w/ 256KB CACHE

Pentium 75 / 90 / 100 / 120 / 133 MHz..............	$359 / 449 / 469 / 539 / 699

Intel TRITON CHIP SET w/256KB PIPELINE BURST CACHE

Pentium 100 / 120 / 133 / 150 / 166MHz...........	$449 / 519 / 699 / 789 / 999

Intel ENDEAVOR Ver. 2 - INTEL TRITON CHIP SET w/256KB PIPELINE BURST Cache
Features: Built-in PCI / IDE, Flash BIOS, Built-in Creative Lab Sound Card, with 3-PCI, 2-ISA, 1-Combo ISA/PCI, 8.6"x10" Size

Pentium 100 / 120 / 133 / 166 MHz....................	$599 / 679 / 569 / 959 / 1159

Intel ATLANTIS - INTEL TRITON CHIP SET w/256KB PIPELINE BURST Cache
Features: Built-in PCI / IDE, Built-in Creative Lab Sound Card, Onboard ATI Mach 64 Graphic Card(1MB exp to 2MB)

Pentium .100 / 120 / 133 / **166** MHz............	$749 / 829 / 1019 / 1119 / 1299
NEXGEN NX586 **P-100 / P-110** ***PCI*** with 256KB Cache (3-PCI, 4-ISA)...	$379 / 409
NEXGEN NX586 **PF-100 / PF-110** ***PCI*** with Math Co-processor.....	$409/ 429
VL-BUS MOTHERBOARD ONLY 128K / 256K..............................	$79 / 89

Multimedia Kits

Double Speed CD ROM Kit:	$109
6-Speed IDE CD ROM Kit:	$239

includes: **CD-ROM Drive**
- Sounds Easy Pro16 Plus Sound Card, Sound Blaster Pro compatible
- 1 Pair of Magnetically Shielded Speakers
- Sound Card Software, **Free 1 Selected CD Title**

Pentium CPU Fan **w/ Alarm**.......$29.99

4 Speed IDE Multimedia Kit
- **Sound Blaster 16 IDE** Sound Card

FREE 1 Pair of Magnetically Shielded Speakers
FREE Sound Card Software
FREE 1 Selected CD Title

$225

14.4k bps Data/Fax Modem-Int./Ext.........	$39.99/ 64.99
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Diamond Stealth Video 64 - *PCI / 2MB* ***VRAM*** *Video Card*.....................	$248
Diamond Multimedia EDGE3D(PCI 2MB VRAM/Video MGEG/16 Sound Card.)	$339
Creative Lab 6X IDE CD-ROM Drive (150ms,900KB/s) w/256k buffer.......	$189
Diamond 8X IDECD-ROM Drive,(230ms, 1200KB/s) w/256k buffer...........	$309
Pioneer 4.4 Speed IDE CD-ROM Drive (Windows 95 Compatible)...........	$139
Toshiba 4X 5302B IDE CD-ROM Drive (190ms,600KB/s) ,256K buffer.....	$139
Toshiba 6X SCSI CD-ROM Drive (XM-3701) (120ms, 1000KB/s)...........	$309
Iomega Zip100 Drive -PC, SCSI, External Storage Media......	$239
Quantum 1.08 GB SCSI Hard Drive.......................... BEST PRICE !!	$239
300W PMPO Magnetically Shielded SRS Speakers.......................................	$64

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Complete Multimedia & Internet Ready Solutions

Chembook 9400 & 9800

BUILT-IN AUDIO

Specifications:
- Genuine Intel CPU Processor
- 128K Cache on 9400; 256K Cache on 9800
- 32 Bit VESA Local Bus Video with 10/3" Display
- 1MB Video RAM with 640x480 on Panal, 1024x768 on CRT
- 16 Bit Sound Blaster Compatible Audio System
- **Built-In 4MB RAM on 9400; 8MB Ram on 9800**
- 1.44MB High Density Floppy Drive
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- PCMCIA Slots (2 Type II or 1 Type III)
- Built-in 25mm Front-Centered Trackball
- Dual NiMH Battery with Hot Swap & 2 Hr Quick Charge
- Ports for Hi-Speed Ser, EPP, Ext CRT, Keyboard/Mouse & VLB Docking Station
- AC/DC Adapter, Carrying Case
- Weight: 6.6lbs; 11.4x8.6"x1.9"

NEW LOW PRICES	DUAL SCAN	ACTIVE MATRIX
9400 - 486DX2-66	$1665	$1945
9400 - 486DX4-100	$1685	$1975
9800 - Pentium 75MHz	$2050	$2310
9800 - Pentium 90MHz	$2150	$2410
9800 - Pentium 100MHz	$2210	$2470

Chembook 5400

- Genuine Intel Pentium CPU Processor (all models)
- **256K L1 & L2 RAM, 8MB DIMM RAM Exp. to 16/24/32MB**
- **32-Bit PCI Local Bus Controller with 2MB VRAM Video**
- 11.3" Dual Scan or 10.3" Active Color with 800x600 on Panel, 1280x1024 on CRT
- 1.44 MB Floppy Drive; 540MB Removable Hard Drive (810/1.3GB optional)
- PCMCIA Slots (2 Type II or 1 Type III)
- **Built-In Glide Point (PS/2); Built-In Joystick**
- 16-Bit Sound Blaster Compatible Sound System, with Built-In Speaker, Mic, Line-In/Out
- **Internal 2X CD-ROM Drive (4X CD-ROM Optional)**
- **Infrared File Transfer Capability**
- Ports for High School Speed Serial, EPP, External CRT, Docking Station and MIDI
- Weight 7.7 lbs. (with Batttery); 10.8" x 8.94" x 2.13"
- NiMH Battery (2.5 hours) Quick Charge 2 Hour Rechargeable

Winter Specials

GREAT VALUE	Dual Scan	Active Matrix
Pentium-75MHz	$2555	$2880
Pentium-90MHz	$2760	$2985
Pentium-100MHz	$2820	$3045
Pentium-120MHz	$2920	$3145
Pentium-133MHz	$3070	$3295

Maxtech X-740

Specifications:
- **Intel 486 Processor**
- **8MB Memory On-Board (Exp. to 8/12/16/20MB)**
- 32 Bit Local Bus Video, Windows Accelerator 1MB Memory
- **Acthive 9.5" TFT LCD Display**
- Removable 540MB Hard Drive (Exp up to 1.2GB)
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II or 1 Type III PCMCIA Slots
- 86-Key Keyboard, Inverted "T" Curser
- Exchangeable Trackball/Stickpoint
- 1 Serial (16550 UART), 1 Parallel (ECP/EPP), Docking Ports
- Optional 16-Bit Sound Module w/SCSI Adapter
- Normal/Doze/Sleep/Suspend/APM.1 Power Management
- NiCad or NiMH Removable Battery
- Weight 6.2 lbs
- Dimensions: 11.4" x 8.7" x 1.9"
- Docking Station Optional

Best Price for Active Screen

LATEST MODEL!

GREAT VALUE	486DX2-66MHZ	486DX4-100MHZ
ACTIVE TFT COLOR	$1755	$1785
Docking Station .... Add $195		

Patriot 6000

Pentium-Powered, Huge 11.3" Dual SCAN & CD-READY, MULTIMEDIA FREEDOM!

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- 256KB Cache Memory on Board
- **8MB RAM (16MB, 24MB, 32MB Optional)**
- 32 Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" (11.3" Option), Active 10.4 TFT
- **Removable 540MB IDE HDD (810MB, 1.3GB Optional)**
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slots
- 86-Key Keyboard, Inverted "T" Curser
- Built-in Touch-Sensitive Trackpad
- Built-in Speakers and Microphone
- Built-in 16-Bit Audio Compatible SB 16 & Win Sound System
- 2 Serial Ports (16550 UART), Parallel Port (EPP/ECP)
- MIDI/Joystick Port (RCA Composite Video Port
- Built-in IrDA Compatible HP Infra-red Communications Modules
- 110V-240V AC Adapter
- Removable Ni-Battery
- DOS 6.22
  Durable Carrying Case
- **CD ROM Drive 5.25" 2X Enhanced IDE Interface (Optional)**

ACOM Patriot 6000

NEW MODEL	10.4" Dual	10.4" Active
486DX4-100	$1990	$2475
Cyrix Pentium 100MHz	$2065	$2555

Ultimate Pentium SCSI LAN Server

- Intel Endeavor Triton Chipset w/256K Pipeline Burst Cache
- Intel Pentium ™ Processor
- 16MB 72-pin RAM up to 128MB Simm
- Quantum FB108oS Fireball 1.08 Fast SCSI Hard Drive
- Adaptec 2940W Fast & Wide SCSI Controller w/Kit
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 PCI 1MB DRAM Display
- GVC 1448B 14" NI .28dp Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe 6-Bay Full Tower w/300W Power Supply
- **Toshiba 3601B 4X SCSI Internal CD-ROM**
- **Creative Labs Sound Blaster 16 Vibra Sound Card**
- **3Com 3C590 PCI Combo Network Card**
- Smartlink 28.8 Internal V.34 AT&T Chipset

PENTIUM

75/90/100 ....$2375/2475/2535
120/133/166 ....$2635/2785/3115

Professional Pentium Station

- Intel Zappa Triton Chipset w/256K Write Back Cache
- Intel Pentium™ Processor
- 8MB 72-pin RAM up to 128MB Simm
- Western Digital 312OOA 1.2GB 10ms
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 Video PCI 2MB VRAM 64 Bit Graphics/MPEG
- Impression 7E 17" NI .28dpi 1280x1024 Digital Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe Super Mini Tower 5-Bay/250W Power Supply
- Toshiba 5302 4X Internal Enhanced IDE CD-ROM
- Creative Labs Sound Blaster 16 Vibra Sound Card
- 3Com 3C590B Etherlink III Combo
- Smartlink 28.8 Internal V.34 Fax/Modem

PENTIUM

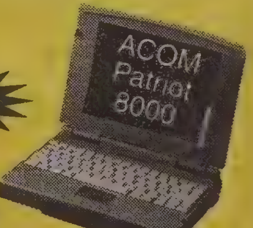
75/90/100 ....$2075/2175/2235
120/133/166 ....$2335/2485/2815

Patriot 8000

100% WINDOWS 95 COMPATIBLE

Specifications:
- Intel Pentium 75 & 90MHz
- 256KB L2 Cache Memory on Board
- 8MB RAM (16, 24, 32MB Optional)
- 32-Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" TFT
- Removable 540MB IDE HDD (810MB, 1.3GB Optional)
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slot
- 86-Key Keyboard, Inverted "T" Cursor
- Built-In Touch-Sensitive Trackpad
- Built-In Speakers and Microphone
- Built-In 16 Bit Audio Compatible with Sound Blaster 16 and Windows Sound System
- 2 Serial Ports (16550 UART), Parallel Port (EPP/ECP), MIDI/Joystick Port, (RCA Composite Video Port, Mini DIN S-Video Port)
- Built-In IrDA Compatible HP Infra-red Communications Module
- 110V-240V AC Adapter
- Removable NI-MH Battery
- Second Battery can be Installed in Place of FDD
- Durable Carrying Case
- 5.25" Quad Speed Enhanced IDE Interface CD ROM Drive (Optional)

New Pentium Release



HOT MODEL	Dual Scan	TFT Active Matrix
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Pentium 90MHz	$2465	$2820
Pentium 100MHz	$2525	$2880
Quad Speed CD ROM ....Add $375		

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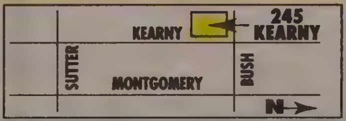

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Pentium PCI Triton Chipset Motherboard w/256K Cache
Intel Pentium CPU with Heatsink & Cooling Fan
Teac 1.44MB FD
8MB RAM Expandable to 128MB
850MB Hard Disk
PCI Enhanced IDE with 2-High Speed Serials, 1 Parallel Port
PCI Windows Accelerator Video Card with 1MB DRAM
Socos 14" NI Green 1024 X 768 0.28dpi Monitor
Mini Tower Case W/230w PS
101 Enhanced Keyboard
MS Compatible Mouse w/Pad
Optional: GVC 15 Digital or 1.08GB HD

Pentium 75MHz	$1065
Pentium 90MHz	$1155
Pentium 100MHz	$1195
Pentium 120MHz	$1275
Pentium 133MHz	$1445
Pentium 150MHz	$1485
Pentium 166MHz	$1765

Pentium System 2

Pentium PCI Triton Chipset 256K Pipeline Burst Cache
Intel Pentium CPU with Heatsink & Cooling Fan
Teac 1.44MB FD
8MB RAM Expandable to 128MB
1.2GB EIDE Hard Disk
PCI Enhanced IDE with 2 High Speed Serials, 1 Parallel Port
PCI Windows Accelerator Video Card with 1MB DRAM
Socos 14" Monitor, 0.28dpi NI
Panasonic 4x IDE CD-ROM
16 Bit Stereo Sound Card
30W Pair of Stereo Speakers
Mini Tower Case w/230w PS
101 Enhanced Keyboard
MS Compatible Mouse with Pad

Pentium 75MHz	$1265
Pentium 90MHz	$1355
Pentium 100MHz	$1385
Pentium 120MHz	$1465
Pentium 133MHz	$1615
Pentium 150MHz	$1655
Pentium 166MHz	$1935

Pentium System 3

ASUS Pentium Triton Chipset with 256K Pipeline Burst Cache
Intel Pentium CPU with Heatsink & Cooling Fan
Teac 1.44MB FD
16MB RAM 72 Pin 60ns
1.6GB EIDE Hard Disk
PCI Enhanced IDE with 2 High Speed Serials, 1 Parallel Port
Diamond Stealth 64 Bit PCI w/1MB DRAM
GVC 15" Monitor, Green, NI, 0.28dpi Digital Control, 1280x1024
Mini Tower Case w/230W PS
Keytronic 101 Keyboard
Microsoft Serial Mouse w/Pad

Pentium 75MHz	$1555
Pentium 90MHz	$1645
Pentium 100MHz	$1675
Pentium 120MHz	$1755
Pentium 133MHz	$1895
Pentium 150MHz	$1935
Pentium 1266MHz	$2215

Super Pentium System 4

Intel Endeavor Motherboard 256K Pipeline Burst Cache
Built-in Sound Blaster
Intel Pentium CPU
Heatsink & Cooling Fan
Teac 1.44MB Floppy Drive
16MB RAM 72pin 60ns
1.2GB Western Digital HD (10ms)
Teac 6x IDE CD-ROM
120W Pair of Stereo Speakers
Diamond Stealth 64 Bit Video Card with 2MB DRAM
GVC 15" Montior, Digital Control 1280x1024, NI, Green, 0.28dpi
Mini Tower Case with 230W PS
Keytronic 104 Win95 Keyboard
Microsoft Serial Mouse w/Pad

Pentium 75MHz	$1785
Pentium 90MHz	$1865
Pentium 100MHz	$1895
Pentium 120MHz	$1985
Pentium 133MHz	$2135
Pentium 150MHz	$2175
Pentium 166Mhz	$2455

Power 486 System 5

486 VLB Motherboard With 256K Cache
Intel 486 CPU With Heatsink & Cooling Fan
Teac 1.44MB FD
8MB RAM 72pin 70ns
32 Bit VLB IDE w/2S, 1P, 1G Ports
540MB EIDE Hard Disk
Trident 32 Bit VLB w/1MB RAM
Socos 14" Monitor, Green NI, 1024x768, .28dpi
Mini Tower Case w/230W PS
101 Enhanced Keyboard
MS Compatible Mouse & Pad

Intel DX4-100 MHz	$899

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16 Bit Stereo Sound Card	$49
Creative Lab Sound Blaster	$69
Creative Labs Sound Blaster w/IDE	$78
Creative Lab Sound Blaster Card w/ASP Chip	$88
Creative Lab Sound Blaster Awe32 Value	$109
Creative Lab Sound Blaster Awe32 w/ASP/4Bit	$215

CD-ROM Drives

Panasonic 4x IDE	$95
Toshiba 4x IDE	$119
Toshiba 4x SCSI	$289
Toshiba 6x SCSI (3701B)	$319
Teac 6x IDE	$169
NEC 4x SCSI	$195
NEC 6x SCSI	$289

Hard Disks

Maxtor 540MB/850MB	$169/189
Maxtor 1.2GB/1.6GB	$239/279
Conner 540MB/635MB	$169/179
Conner 850MB/1.2GB	$189/215
Quantum 540MB/1.08GB/1.2GB	$169/219/239
Western Digital 635MB/850MB (10ms)	$175/199
Western Digital 1.2GB/1.6GB (10ms)	$259/299
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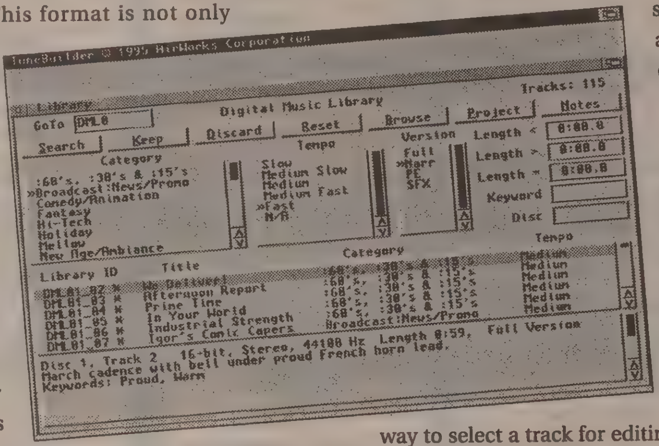
AMIGA *continued from page 242*

TuneBuilder-encoded music CDs are pure Red Book audio format, which is not yet supported by the Amiga version of TuneBuilder. Moreover, they only work on the PC/Mac versions of TuneBuilder if you have very specific hardware. Fortunately, Killer Tracks is in the process of converting all of its libraries to the ISO 9660 CD-ROM format. This format is not only more universally usable, but the audio data is accessed much faster.



Library ID	Title	Category	Tempo
DML01_02 *	We Deliver!	:60's, :30's & :15's	Medium
DML01_03 *	Afternoon Report	:60's, :30's & :15's	Medium
DML01_04 *	Prime Time	:60's, :30's & :15's	Medium
DML01_05 *	In Your World	:60's, :30's & :15's	Medium
DML01_06 *	Industrial Strength	:60's, :30's & :15's	Medium
DML01_07 *	Igor's Comic Capers	Broadcast:News/Promo	Medium

Disc 1, Track 2 16-bit, Stereo, 44100 Hz Length 0:59, Full Version
March cadence with bell under proud French horn lead.
Keywords: Proud, Warm

BUILDING BLOCKS

So how does TuneBuilder accomplish this magic? The secret lies in what's called "edit points"—specific points in a song that represent logical breaks. These points are determined by AirWorks' professional editing team and permanently encoded in every song.

Edit points allow TuneBuilder to look at a piece of music and separate it into meaningful blocks. These blocks can be rearranged, repeated, or left out in creating a new version.

TuneBuilder uses special algorithms to compile the music blocks. Obviously, the first and last blocks usually have to be used as the beginning and ending. However, the blocks in between have to be logically arranged and repeated so they sound like one seamless composition. You can't just throw the list in a hat and pull stuff out at random.

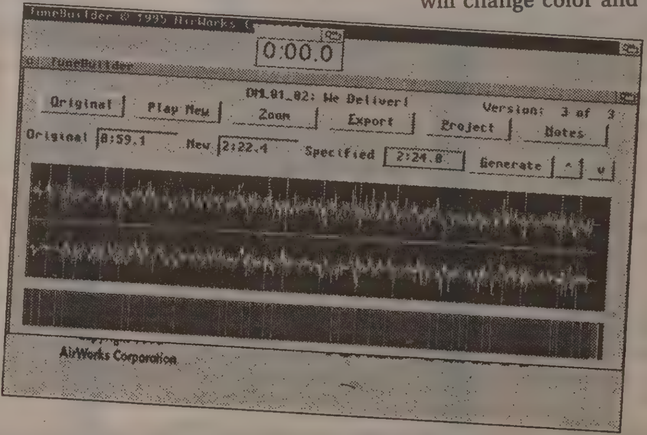
SELECTING THE ORIGINAL MATERIAL

The first thing you need to do with TuneBuilder is select a least one track of music. You can do this by simply browsing through a library and picking one or more songs. The scrollable list will show the library reference, song title, category, and tempo. Songs that are stored on the CD presently loaded are highlighted with an asterisk.

Short descriptions, or "Notes," for each song are displayed when a particular track is selected. The notes include information such as disc name, track number, audio sample type, and length. There's also a brief description of the track and some key words. The really cool aspect of Notes is that you can edit the text and add your own comments, up to ten lines of descriptive text.

You can limit the tracks displayed by doing a search. You can also search the database using criteria like category, tempo, length, key word, etc. The search routine has selectable "and/or" logic choices.

Another way to select a track for editing is to play the CD. A CD player utility is included so you can audition tracks right from the TuneBuilder, if your CD-ROM drive supports this. You could also use an ordinary audio CD player, since the DML discs are actually a hybrid ISO 9660/Red Book format. Track 1 is the ISO 9660 data, while the remaining tracks are 10-second samples of the available songs.



DML01_02: We Deliver!
Version: 3 of 3
Original 0:59.1
New 2:22.4
Specified 2:24.0

RETRIEVING THE DATA

Once you have selected the track or tracks you want to work on, the digital audio information must be transferred to your hard drive. At 14MB of disk space per minute of audio, this procedure can take several minutes, depending on the length of your selections and the speed of your CD-ROM drive.

BUILDING THE TUNES

Now we get to the fun part. Once the 16-bit audio data is transferred to your hard drive, TuneBuilder automatically creates an 8-bit Amiga version. This allows you to work with the audio sample without the need of any additional hardware. Pretty cool, eh?

TuneBuilder displays a graphical representation of the left and right channel waveforms. It also shows the locations of the edit points. You can zoom in on any specified range for close-up work.

To have TuneBuilder automatically create a new version, all you do is enter the desired song length and click the Generate button. In seconds, a new version of the track is created and appears at the bottom of the screen in the Version Assembler. You can generate multiple versions, which are accessible from a scrollable list.

The Notes feature is also accessible at this point, allowing you to add descriptive text to each version. You can also add notes to specific music blocks.

As you play a new version, a vertical bar scrolls left to right in the Version Assembler. The corresponding block being played from the source track also has a scrolling bar, so you can see where the original block is. If you click on a block in the Version Assembler, it will change color and the corresponding block in the source track will become highlighted. You can play only a portion of the new version by highlighting a range with your mouse.

CUSTOM CREATIONS

If TuneBuilder's automated feature is a little too mindless, you can manually modify any song version by adding, rearranging, or deleting blocks. You can also build a new version entirely from scratch. Of course, at that point you'll be on your own as far as song length goes. A helpful feature is provided to preview a single block or sequence of blocks. Creating your own compositions is great fun!

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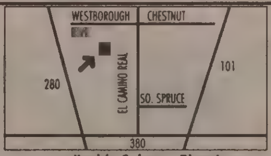
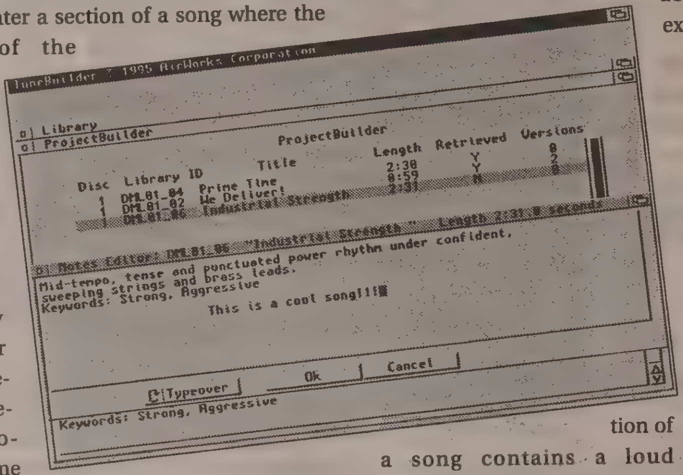


(Inside Fairway Plaza)

FINE TUNING

As smart as TuneBuilder is, once in a while you'll encounter a section of a song where the dynamics of the joined blocks don't sound right—for example, going from a loud passage immediately to a softer one. To remedy this, TuneBuilder provides a volume adjustment for each block. This is not a complete audio envelope editing feature, since you can only linearly adjust the beginning and ending volume levels. However, it should be adequate for most situations.



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ProjectBuilder
                         ProjectBuilder
Disc  Library ID  Title                 Length  Retrieved  Versions
 1    DML01_04    Prime Time             2:30       Y         0
 1    DML01_02    We Deliver!            0:59       Y         2
 1    DML01_06    Industrial Strength    2:31       N         0
Notes Editor: DML01_06 "Industrial Strength"  Length 2:31 0 seconds
Mid-tempo, tense and punctuated power rhythm under confident,
sweeping strings and brass leads.
Keywords: Strong, Aggressive
              This is a cool song!!!
Typeover      Ok      Cancel
Keywords: Strong, Aggressive
```

You can also selectively mask out undesirable blocks. For example, if a portion of a song contains a loud crescendo that you don't want, a simple right-click on the block prevents it from being used in the automatically created version.

With AirWorks' TuneBuilder, prerecorded stock music has been taken to a new dimension

FILE FORMATS

The breadth of export file formats that TuneBuilder supports is nothing short of phenomenal. Here's the list: Amiga 8SVX, Electronic Arts AIFF and AIFF-C, dual left and right AIFF (Sunrize Studio 16), MAUD (Toccata), Sun .au, RAW, RAWI, RAWU, RAWIU, DEC .sd, Adlib Gold .smp, NeXT .snd, Creative Voice VOC V1.10 and V1.2, and of course WAV. You also have your choice of 8- or 16-bit, stereo or mono, and sample rates of 44.1kHz (the audio CD standard), 22kHz, and 11kHz. I'm hoping that the Flyer audio format will be supported in the future.

SYSTEM REQUIREMENTS

TuneBuilder will work on virtually any Amiga, although you need 1MB of Chip RAM; something faster than a 68000 CPU is recommended. AmigaDOS 2.04 or

486 DX2-66
- 486 DX2-66 w/256K MB
- 486 DX2-66 CPU
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- 420 MB IDE Hard Drive
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AMIGA *continued...*

greater and ARexx are also needed. At least 10MB of free disk space is suggested, although it depends on the length of the audio you create. As mentioned previously, each minute of 16-bit stereo 44.1kHz audio requires 14MB of storage space.

I hope AirWorks will add two features to TuneBuilder: support for public screens and an ARexx command set. TuneBuilder is a powerful piece of software as it exists now, but these two features would dramatically increase its usefulness.

An audio-capable CD-ROM drive is also required with a SCSI-direct controller, or even a networked CDTV or CD32. Interestingly, the GVP SCSI controller is specifically not recommended. A 16-bit sound card, like a Toccata (NoahJi's) or the Sunrize boards, is optional.

FILE SYSTEM PROBLEMS

Initially I ran into a problem where the program was not recognizing my CDs as TuneBuilder CDs. The problem relates to the fact that the CDs were mastered on a Mac.

The Mac's internal file system uses data and resource forks when storing files. What ends up happening is that two files with identical names appear in a directory. Obviously, this really confuses the Amiga.

Many Amiga CD file systems now have a special feature to handle this. Often, a special character is appended to the file name to distinguish it from the other, or one of the files is simply ignored. Unfortunately, I'm finding that this special feature may not be turned on unless the CD uses the Mac HFS format CD (not ISO 9660). The only commercially available version that works is the AsimCDFS filesystem. The Xetec CDx file system also works, but is no longer available. The public domain AmiCD, AmigaDOS 3.1, and NewTek Flyer (a limited version of AsimCDFS) CD file systems all work improperly with TuneBuilder.

MISSING LINK

I hope AirWorks will add two features to TuneBuilder: support for public screens and an ARexx command set. TuneBuilder is a powerful piece of software as it exists now, but these two features would dramatically increase its usefulness.

If TuneBuilder could be controlled from ARexx, you could seamlessly integrate it into applications for a totally automated experience. Imagine this. You've just finished your digital video masterpiece and you need a killer soundtrack (from the Killer Tracks library, of course). You simply execute an ARexx script and the TuneBuilder window comes right up on your application screen. You select a track of music and TuneBuilder automatically builds several versions to exactly the length of your video. The finished production then automatically plays back several times using each soundtrack version.

You might think I'm in dreamland, but it's all just part of using an Amiga. There were plans to integrate TuneBuilder right into the Video Toaster Flyer software (NewTek), but nothing has been shown yet. I think ARexx support would have to be added first.

TuneBuilder is also available for the PC and Mac platforms, and all can use the DML CD-ROM discs. All of the popular PC sound cards are supported. (Note: There are some functional differences between platform versions.)

FAMILIAR TERRITORY

Now, if any of this sounds remotely familiar to you, it might be from using Oxxi's AudioMaster IV. This ancient Amiga sample editor had a similar sequencing feature for Amiga 8-bit samples. I spent many months playing with AudioMaster to create custom mixes of my favorite tunes. I felt very comfortable with TuneBuilder from the very beginning since I already had a fundamental understanding of how it worked. TuneBuilder is an impressive piece of software. If you need high quality custom-length soundtracks, this product is an absolute must-buy. Of course, if you want 16-bit output from your Amiga, you'll need a Toccata or Sunrize board. It doesn't matter what your level of music experience is. Anyone can use this product. Furthermore, Killer Tracks offers an ever-growing source of quality material and is wholeheartedly jumping on this product for good reason. ■

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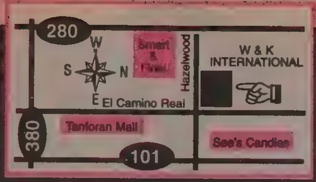

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- JRS 40W 2-Way AMP Speakers

New '95 CD Pack-
MS Win 95 Compatible
1995 Grolier's Multimedia, The Animal, US Atlas, World Atlas, The Chessmaster 4000 Turbo, Mavis Beacon Teaches Typing
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FREE Monterey 14.4 S/R Fax Modem

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486 DX4-120 (AMD)	**.$1410**
486 DX4-100 (Intel)	**. .$1408**
486 DX4-100 (AMD)	**.$1388**
486 DX2-80 (AMD)	**. .$1363**
486 DX2-66 (Intel)	**. . .$1396**
486 DX2-66 (AMD)	**. .$1358**

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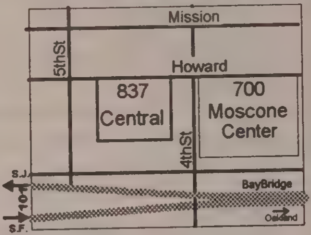

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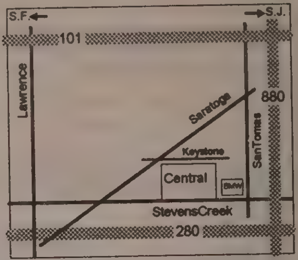

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Central Systems #1
486 Green VLB

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (4 of 30-pin, 70-ns Simm)
Teac 1.44MB Floppy
IDE & FD Controller & I/O (2S 1P)
Baby Tower Case w. 200W Power
Spill Resistant 101 Keyboard
Western Digital 635MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Shamrock 14" 1028 x 768 .28 NI Digital Monitor
Microsoft Serial Mouse

LYNX / M-Tech 486-DX2-66 ISA VLB **$969**

Special : 486-DX4-100 PCI

LYNX 4PCI 2VLB / M-Tech **$999**
Intel 486-DX4-100 CPU
4MB RAM (1 of 72-pin, 70-ns Simm)
* Others same as above

Central Systems #2
486 Multimedia Tower

Intel 486-DX2-66 CPU
CPU Cooling Fan
4MB RAM Memory (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Baby Tower Case w. 200W Power
Keytronic 101 Keyboard
Western Digital 635MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Shamrock 14" 1028 x 768 .28 NI Digital Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

MICRONICS 486-DX2-66 ISA 2VLB **$989**

MICRONICS JX30WB 486 ISA VLB **$1049**

AIR 486-DX2-66 ISA 3VLB **$985**

Central Systems #3
486 Value Station

Intel 486-DX2-66 CPU
CPU Cooling Fan
8MB RAM (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Western Digital 635MB IDE Hard Drive
Diamond Stealth 64 2MB DRAM VLB VGA
Shamrock 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

AIR 486-DX2-66 ISA 3VLB **$1325**

MICRONICS 486-DX2-66 2VLB **$1329**

MICRONICS JX30WB 486 ISA VLB **$1389**

For MICROSOFT Dos 6.22 & Windows 3.11, add $79 All systems are upgradable for the price difference

Central Systems #4
Pentium IDE Station

Intel Pentium CPU
CPU Cooling Fan
8MB RAM EDO (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Western Digital 635MB IDE Hard Drive
Diamond Stealth 64 2MB PCI DRAM VGA
Shamrock 15" 1280 x 1028 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

INTEL 586-90 / 100 PCI Triton **$1555/$1599**

SUPER P54CMS 586-90 / 100 PCI **$1589/$1635**

MICRONICS M54PI 586-90 / 100 3PCI **$1615/$1659**

Central Systems #5
Pentium SCSI Station

Intel Pentium CPU
CPU Cooling Fan
8MB RAM EDO (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Adaptec 2940 SCSI Board w. Kit
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Quantum 1GB SCSI Hard Drive
Diamond Stealth 64 2MB PCI DRAM VGA
Shamrock 15" 1280 x1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

MICRONICS M54PI 586-90 / 100 3PCI **$1879/$1929**

INTEL ZP 586-90 / 100 PCI Triton **$1829/$1879**

SUPER P55CMS 586-90 / 100 PCI **$1859/$1909**

Central Systems #6
Pentium CAD Station

586-100MHz Pentium CPU
CPU Cooling Fan
16MB RAM EDO (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Conner or Maxtor 1.6GB IDE Hard Drive
Diamond Stealth 64 2MB DRAM PCI Card
Shamrock 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

INTEL ZP 586-100 / 133 PCI Triton **$1999/$2249**

MICRONICS P54Hi 586-100 / 133 3PCI **$2069/$2315**

SUPER P55CMS 586-100 / 133PCI Triton **$1975/$2219**

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Page 2 / 8

HARDWARE

1. CD DRIVE / SOUND CARD

ADDONICS (portable)

4X Parallel Port CD Rom	295
4X Parallel Port CD Rom w. Sound Card	395

CHINON

CDS-545 4X 230ms, 600Kb/s, IDE, Int	95

CREATIVE LABS

Midi Kit + Software	65
SB 16 IDE Vibra	79
SB 16 SCSI-2 oem w. ASP	**(115)*
Sound Blaster 32 IDE oem / reg	125/155
Sound Blaster AWE 32, plug & play	235
Sound Blaster AWE 32 w. ASP	235
Video Blaster SE-100 (video capture)	235
Wave Blaster II	135

MITSUMI

FX400 230ms, 600Kb/s, IDE 4 Speed Int	**(105)*
FX600 150ms, 900Kb/s, IDE 6X Int	*165*

NEC

6Xi 6 Speed Int oem / reg	299/355
MultiSpin 4X Ext 4 Disc Changer	355
MultiSpin 4X Int 4 CD Rom Changer	279
Interface Kit w. 16 bit AT SCSI	69

PANASONIC

CR-581 4 Speed IDE Int	**(115)*

PIONEER

4 Speed, 150ms, 676Kb/s, SCSI Int	195

PLEXTOR

PX-43CE 100ms, 675Kb/s, 4X Int	279
PX-63CS 145ms, 900Kb/s, 256k, 6X Int	355

SONY

CDU-77E 4X 250ms, 600Kb/s, IDE Int	**(109)*
CSD-760S 4X SCSI / w. Adaptec Kit	159/239
PRD-150 Portable 2X w. PCMCIA Kit	345

TEAC

CD56E 6X IDE Int	**(169)*

TOSHIBA

3701B 6X SCSI Int	299
XM-5402B 4 Speed IDE Int	**(115)*

TURTLE BEACH

Monte Carlo Game Card	95
Tropez Sound Card	195
Wave Table Sound 32	129

OTHERS

CD Carring Case (holds 40 CDs)	19.95
CD Caddy / CD Jewel Case	*3.99/*(0.55)*
CD Pop-Out Storage Case (holds 30 CDs)	19.99
ESS 16 IDE Sound Card	58
Gravis Ultrasound Ace	**(99)*
Media Vision : Jazz 16 SCSI Sound Card	**(59)*
Microphone / Headphone	7.99/3.99
Wav Jammer 16 bit Stereo PCMCIA	275

MULTIMEDIA UPGRADE KIT :

Diamond 4400 4X CD Kit w. 20 titles	275
Diamond 800 8X CD Kit w. 1 title	325
Diamond 7000 4X CD Kit w. 22 titles	299
Diamond 8000 8X CD Kit w. 5 titles	**(489)*
SB 2X + 16 Sound + Microphone & Headphone	189
SB Discovery 16 2X CD Kit w. 18 titles	199
SB Discovery 4X CD Kit w. 15 titles	299
SB Edutainment 2X CD 16 w. 42 titles	279
SB Multimedia Office 2X CD Kit	379
Turtle Beach TBS-810 4X + 16 Sound Card + titles	219
Turtle Beach TBS-6600 6C CD + 16 Sound + titles	269
Turtle Beach TBS-8800 8X CD + 16 Sound + titles	389

REWRITABLE CD DRIVES :

HP Sure Store CD Writer C4324A, read 4X, write 2X	**(999)*
- Writable CD 74 min.	11.95
Kodak Writable CD (74 min.)	8.95
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1099/1199/2565
Panasonic PowerDrive Optical : 2X Write, 4X Read Int / Ext	485/615
- Writable Optical Disk	49.95
Philip CDD-522 2X Int (w. software)	2145
Pinnacle Micro RCD 5020i 2X Int	935
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2350/2575

SPEAKERS :

Active 75 (80W) / Active SP-690	45/33
Altec ACS52 / ACS53	95/125
Altec ACS150 / ACS300.1	99/199
EP-68 (70W)	33
EP-120 (120W) / EP-280 (40W)	49/29
JAZZ J-306 5W RMS per Channel	39
JAZZ J-590 14W RMS per Channel	69
JAZZ J-688 14W RMS per Channel	89
JAZZ J-902S 18W RMS per Channel	109
Labtec CS150 / CS180	**(11.50)/18.95*
Mini Speakers (4W)	**(4.99)*
PC-60 Multimedia (4W)	7.50
QIC-8803 Amplied Speakers (100W)	42
Yamaha YST-M5 / YSTM-10 (10W)	39/69

2. CASE

Baby AT w. 200W / Baby Tower w. 200W	49/45
Mid Tower w. 230W Power	59
Full Tower w. 250W Power : 1 Fan / 2 Fans	79/95
Full Tower w. 300W Power & Wheels	169
GT212 Mid Tower w. 250W, Open Side, 2 fans: Black / White	109/105
GT300 Full Tower w. 300W, Open Side, 2 fans: Black / White	175/169

HDD EXTERNAL CASING:

2 half ht or 1 full ht for PC, 60W, w/o cable	89
3 half ht or 1 full ht & 1 half ht, 60W, w/o cable	105
4 half ht or 2 full ht, 200W, w. cable	119
7 half ht or 3 full ht & 1 half ht, 250W, w. cable	229

ANTEC

CD Rom or 5.25" External Casing	65
3.5" HD External Casing	59
KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CP SCSI Board, 10Mb/s / w. Kit	175/239
2742AT SCSI EISA w. Kit	355
2842AK SCSI VLB w. Kit	229
2940 SCSI PCI w. Kit oem / reg	219/249
2940U SCSI PCI w. Kit oem	235
2940W Wide-SCSI PCI Kit w. wide int cable	269
2940UW Ultra Wide-SCSI PCI w. Kit oem / reg	275/295
AHA3940 PCI Multi-Channel SCSI	399
APA1460 Slim PCMCIA SCSI	165
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	85
T358K EPP Parallel to SCSI Adapter	115

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	375
KT910A IDE Cache PCI w. Kit	159
KT946C SCSI PCI w. Kit (supports 8GB HD)	249

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35
3274 SCSI VLB 32 bit	75

FUTURE DOMAIN (SCSI)

TMC-1660 SVP (SCSI Value Pack)	119
TMC-1680 for AT (4FD & HD) / SVP	119/129
TMC-3260 PCI / SVP	105/139

KOUWELL

KW-554N 2IDE/ 2FD	19
KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP.	34
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	39
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550.	59
EIDE MAX Enhanced IDE ISA only	32

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit / Fast SCSI VLB Kit	199/189
Fast SCSI PCMCIA	199
Fast SCSI PCI Kit / Wide-SCSI PCI Kit	249/299

SIIG (5 yr. warranty)

SC-JE0012 EIDE 4HD 16 bit ISA	39
SC-JE4012 EIDE 4HD/ 2FD 16 bit ISA	59
SC-VKA4ZZ EIDE 4HD/ 2FD/ 2 Fast Serial/ high speed ECP/P / 1 Game VLB	89

VITEX

IDE w. 2FD/ 2S 1P/ 16550 chips	35
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	65
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	39

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	29
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	39

OTHERS

ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI w. 16550 chips	45

4. CPU

AMD

486-DX2-66 / 486-DX2-80	45/55
486-DX4-100 / 486-DX4-120	79/105

INTEL

486 DX2-66	79
Over Drive 486-DX2-66	79
486 DX4-100	89
586-75MHz / 586-90MHz Pentium	185/269
586-100MHz / 586-120MHz Pentium	309/379
586-133MHz / 586-150 MHz Pentium	539/579
586-166MHz Pentium	849

OTHERS

Cooling Fan for 486 CPU	5.95
Cooling Fan for 586 Pentium CPU	7.95

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button	**(249)*
III 12 x 18, 4 or 16 button	**(395)*
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC	135
- w. Fractal Dabbler	165
Art Pad II 4x5, for MAC	139
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	425/429
Art Z II 12x18, w. UP-701E	685
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

6. DRIVE

FLOPPY DRIVE :

SONY

MPF-520 1.44MB 3.5" / w. frame	31/35

TEAC

1.2MB 5.25"	43
1.44MB 3.5" / w. frame / Black	33/37/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVE :

CONNER

CPS-541A 540MB 14ms 64k IDE 1" ht	169
CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1060S 1.08GB 10ms 256k SCSI-2	**(249)*
CFS-1621A 1.6GB 14ms IDE 1" ht	279
CFP-2105S 2.1GB 8.5ms 256k Fast SCSI-2	579

FUJITSU (2 yr. warranty)

M2684SAU 540MB 12ms 256k SCSI 1" ht	179
M1606SAU 1GB 9ms 512k SCSI	249

HP

3724S 1.2GB 9.5ms SCSI-2	309
5271A 1.6GB IDE	289
3725S 2.14GB 8.9ms SCSI-2	585

KINGSTON

PCMCIA 260MB IDE	445

MAXTOR

MXT-7850A 850MB 12ms 32k IDE	195
MXT-71626A 1.6GB 12ms 128k IDE	279

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	699
MC-3243 4GB 8.5ms 512k 3.5" ht	1125
MC-1991 9GB 12ms 5.25"	2065

NEW MEDIA

PCMCIA 105MB IDE / 170MB IDE	375/425
PCMCIA 260MB IDE	589

QUANTUM

FB-1080S 1GB 12ms 128k SCSI-3	**(259)*
TR-840A 840MB 14ms 128k IDE	195
TR-840S 840MB 14ms 128k SCSI	235
Capella VP32210S 2GB 8ms 5400rpm SCSI-2	645
Atlas XP-32150S 2GB 8ms 7200rpm SCSI-2	759
Grandprix XP-34301 4GB SCSI	979

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	265

SEAGATE (5 yr. warranty for 1GB+)

ST-51080A 1GB 10.5ms IDE	229
ST-31231N 1.05GB 9ms 512k SCSI-2	359
ST-31230W 1.05GB Wide-SCSI	455
ST-32430N 2.14GB 9ms 512k Fast SCSI	649
ST-32430W 2.14GB 9ms 512k Wide-SCSI	709
ST-32550N 2.14GB 8ms 512k SCSI-2	755
ST-32550W 2.14GB Fast-wide SCSI	829
ST-15230N 4.3GB 9ms 512k SCSI	995
ST-410800N 9.0GB 11.5ms 1M SCSI	2199

TOSHIBA

PCMCIA 262MB IDE	455

WESTERN DIGITAL (3 yr. warranty)

WD-6350 635MB 11ms 128k IDE	179
WD-2850 850MB 10ms 128k IDE	199
WD-2100 1GB 11ms 128k IDE	229
WD-31200 1.2GB 11ms 128k IDE	269
WD-31600 1.6GB 10ms 128k IDE	309

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	4/4
Removable Case for 3.5" HD IDE / SCSI	25/27

REMOVABLE DRIVE :

SYQUEST (Mitac)

105MB 3.5" w. cart., SCSI for Mac, Ext.	359
270MB 3.5" w. Kit, Int	375
270MB 3.5" Bare Drive, SCSI, Int oem	299
105MB Cartridge / 270MB Cartridge	55/65

ZIP DRIVE :

IOMEGA

Zip Drive 100MB SCSI / Parallel	199/199
Zip Disk 100MB Single	18.95
Zip Disk 100MB 3-Pack / 10-Pack	49.95/155

7. I/O CARD

KOUWELL

KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	34
KW508-1 Single Parallel Port	12

QUICKPATH (16550)

FlexPort 42: 4 Serial / 2 Parallel (Bi - Dir)	99
PortFolio 550E: 13 Port Multi-I/O, 4 Serial/ 4 FDD/ 2 Parallel/ 2 IDE/ 1G	125

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	39

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	99

VITEX

AT I/O (2S 2P) w. 16550 chips	39

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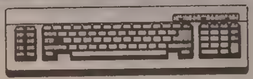
8. KEYBOARD



FOCUS

FK2001 101 Click	35
FK9000 129 Key Programmable	47
FK7200 101 Trackball	39

MICROSOFT

Natural Keyboard oem / reg	65/*(79)

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T	*(75)

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39
Wintouch (for Win'95)	39
W104 (for Win'95)	29

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 104	*(29)
Maxi 101 / Maxi 124	35/53
Mitsumi 104	29
Spill -resistant 101 Key	19.50
Unikey Natural Keyboard	42

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns (1MB)	36/34/33
4 x 9 - 60ns / 70ns (4MB)	135/130
1 x 36 - 60ns / 70ns (4MB , 72 pin)	129/125
2 x 36 - 60ns / 70ns (8MB , 72 pin)	259/255
4 x 36 - 60ns / 70ns (16MB, 72 pin)	519/515
8 x 36 - 60ns (32MB, 72 pin)	1099
EDO 1 x 32 - 60ns	125
EDO 2 x 32 - 60ns	229
EDO 4 x 32 - 60ns	479
Non Parity : 1 x 32 - 60ns / 70ns	109/105
Non Parity : 2 x 32 - 60ns / 70ns	209/205
Simm Verter 30-pin to 72-pin converter	25

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

10. MODEM & FAX

BOCA

14.4 Fax Int / Ext	*(75/95)
14.4 Online Express Int / Ext	65/79
14.4 Pocket Fax	169
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem.	*(145)
28.8 Fax Modem v.34 Int / Ext	*(155/199)

GARNET (5 yr warranty)

28.8 v.34 Fax Int	125

GVC (Maxtech)

14.4 Fax Int / Ext	*(49)/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99
28.8 Fax Internal	149

HAYES

Accura 144 + Fax Int / Ext	*(87/105)
Accura 28.8/14.4 v.34 Fax Int / Ext	195/215
ESP Communication : Single Port	85
Optima 288 v.34 Fax Int / Ext Voice	369/419
Optima 288 v.34 PCMCIA w. EZ jack	299

MEGAHERTZ

PCMCIA XJ1 144 Fax (MNP5)	*(115)
PCMCIA XJ2 144 Fax (MNP10)	*(145)
PCMCIA XJ2288 Fax	*(275)

MICROCOM

Deskporte 28.8S V.34 Fax Ext	175
Deskporte EP 28.8 V.34 Ext	229

MOTOROLA

BitSerfer ISDN Modem Int	285
BitSerfer TA210 ISDN Ext	279
BitSerfer Pro ISDN Multilink PPP	359
Life Style 28.8 Fax Modem Int / Ext	185/199
Life Style PCMCIA 28.8 V.34	259

PHOBE MICRO

28.8 Fax/ Voice Mail/ Sound all-in-1	198

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	*(75/89)
PC28.8 v.34 Fax, 230K DTE Int / Ext	269/285
PC28.8 v.34 Ext LCD	345
PM28.8 v.34 Int / Mini Tower Ext	*(169/185)

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SUPRA EXPRESS

28.8 Fax Modem, plug & play Int / Ext	*(135/159)

US ROBOTICS

Courier ISDN v.34 Int / Ext	435/469
Courier ISDN v.34 with NT1 Int / Ext	535/599
Courier ISDN with Analog Int / Ext	595/675
Courier v.34 28.8/14.4 Fax Int / Ext	389/419
Sportster 144/144 Fax MNP5 Int / Ext	95/109
Sportster 144/144 for Mac Ext	149
Sportster v.34 288 ISDN Int	375
Sportster v.34 28.8/14.4 Fax Int / Ext	185/195
Sportster v.34 28.8/14.4 Fax for MAC	215
Sportster PCMCIA Fax v.34 28.8	*(289)335
Sportster Vi 144 Fax w. Voice Mail Int / Ext	109/125
Sportster Vi 288 Fax w. Voice Mail Int / Ext	209/225
Sportster Vi 28.8 v.34 w. DSVD Int	275

XIRCOM

CM-28 28.8 Fax PCMCIA	275

ZOOM (7 yr. warranty)

144 Fax Modem & Voice Int / Ext	*(99/149)
28.8 V.34 14.4 Fax Int / Ext	149/189

ZY-XEL

Elite 2864 28.8 Ext upgrade to ISDN	425
Omni 28.8 Ext Voice Serial / Parallel	314/315
U1496E 16.8 Voice 14.4 Fax, LED Ext	299

OTHERS

CommShare 550 Phone & Fax Auto-switch	*(69)
CommShare 750 4 Port Switching	*(89)
14.4 Fax Modem Int	59

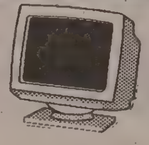
FAX MACHINE :

LUMINA

Series 2000, Model 2096, Fax/ Scan/ Copy, 256k	389
Series 2000, Model 2144, Fax/ Scan/ Copy, 1MB	525

11. MONITOR

20 Big
Monitors
on
Display



EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	99

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	379
CM1786M 17" 1280 x 1024 .28	669
CM2011M 20" 1600 x 1200 .28 NI	1295

IIYAMA

MF-8115 15" 1280 x 1024 .28	415
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	*(729)
MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	*(825)
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	*(1739)
MT-9021E 21" 1600 x 1280, 76Hz, .30 NI	*(1715)

KFC

CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1515DL 15" Flat 1280 x 1024 .28	355
CA1718 17" Flat 1280 x 1024 .26	595

MAG

DX15G 15" 1280 x 1024 .28 NI (no LED)	375
DX15T 15" 1280 x 1024 .26 NI	459
DX1595 15" 1280 x 1024 .28	389
DX17T 17" 1280 x 1024 .26 NI	779
DX1795 17" 1280 x 1024 .28	709
MXP17F 17" Flat 1600 x 1280 .26 NI	*(849)

MAXVISION

HL-7864 Deluxe 17" 1280 x 1024 .28 NI	595

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI, Trinitron	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1039
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1925
FX2.21 21" 1600 x 1280 .28	2895

NEC

XV15 15" 1024 x 768 .28	*(465)
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	*(749)
XV17 Plus 17" 1024 x 768 .28 NI	849
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99
XE21 21" 1280 x 1024 .28 NI	*(1675)
XP21 21" 1600 x 1200 .28 NI	*(1999)

NOKIA

449E 15" 1280 x 1024 .28 NI	*(455)
447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	1945
445X 21" 1600 x 1280 .26 TCO	2055

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	*(249)
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	389

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749

PRINCETON

Ultra 17 17" 1280 x 1024 .28 NI	595
Ultra 17 Plus 17" 1600 x 1280 .28 NI	699

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	335
GM1764M 17" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	659

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	*(849)
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1319

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	329
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	589
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	1199
SRC-2102L 1600 x 1280 Ni	1549

SONY

1425 14" 1024 x 768 .25	*(299)
15SX 15" 1280 x 1024 .25 NI	459
17SFII 17" 1280 x 1024 .25	889
20SFII 20" 1600 x 1200 .30 NI, plug & play	1745

TVS

9" 1024 x 768 VGA Mono	119

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	285
15ES 15" 1024 x 768 .28 NI, MacII	385
15G 15" Flat 1280 x 1024 .28 NI	425
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17EA 17" 1280 x 1024 .28 NI, plug & play	665
17GA 17" 1280 x 1024 .27 NI, plug & play	779
17GS 17" 1280 x 1024 .27 NI	735
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	899
PT770 17" 1600 x 1280 .25	*(935)
20G 20" 1600 x 1280 .28 NI, MacII, TCO	1265
21PS 21" 1600 x 1280 .26 NI, MacII	1649
PT810 21" 1600 x 1280 .30	*(1975)

WYSE

WY-1450A 14" 1024 x 768 .28 NI	269
WY-15E 15" 1280 x 1024 .28 NI	409
WY-60 Terminal 14" : Amber/ Green/ White	335 each
WY-65 Terminal 14" : Amber/ Green/ White	359 each
WY-150 Terminal 14" : Amber/ Green/ White	299 each

Accessories :

VGA Monitor Splitter : 4 Port / 8 Port	155/195
VGA, Keyboard & Mouse Switch : 2 Way	24.95
VGA, Keyboard & Mouse Switch : 4 Way	34.95
VGA Switch 1 to 4 Way	13.95

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	149
486EI : 486-DX2-66 / DX4-100 256k, EISA, 3VLB	295

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	219
P55TP4XEG 586-166 PCI, 256k, w. Burst SRAM	219
P55TP4XEG 586-166 PCI, 512k, w. Burst SRAM	279
586-90 / 100 256k PCI EISA, dual processor	585

IBM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	139

INTEL (w/o cpu)

586-90 / 133 256k ZP PCI, Trition, built-in IDE I/O	229
Atlantis 586-166Mhz PCI, Triton, built-in IDE I/O, w. 256k Burst SRAM, ATI Mach 64 1MB SVGA & w. Vibra Sound	395
Endeavor 586-90/ 166MHz PCI, Triton, built-in IDE I/O w. Pipeline Burst SRAM & Vibra Sound	299

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	125

M-TECH (w/o cpu)

486-DX2-66 256k VESA, 30-pin & 72-pin	129
486-DX4-100 256k PCI, 30-pin & 72-pin	149
586-133 256k PCI, 30-pin & 72-pin	179
- w. Burst SRAM 256k	209

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	55
486-33 / DX2-66 256k VLB	155
JX3WB 486-DX2-66 256k VLB w. write-back cache	209
486-33 / DX2-66 256k VLB EISA-3	249
M54PI 586-90 w. IDE I/O (Neptune)	279
M54Hi 586-166 256k, Triton, w. Burst SRAM	355
M54HI 586-166MHz 256k, Triton	299

SUPER

P55CMS 586-90 / 180 256k, PCI, built-in IDE I/O	
- w. Burst SRAM 256k, w/o cpu	245
- w. Burst SRAM 512k, w/o cpu	295
P6SOF Single Pentium Pro 200/ 180/ 166/ 150Mhz, w. IDE I/O	1215
- CPU	Call
P6SOF Dual Pentium Pro 200/ 180/ 166/ 150Mhz, w. IDE I/O	1515
- CPU	Call

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	10.95
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial / First Trackball	31/49
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	65/125

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55

MOUSE SYSTEMS

Altes Mouse	9.95
Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

LOGITECH

Wingman Extreme / Wingman Standard	47/29.95

MICROSOFT

Side Winder 1.0	29
Side Winder 3D Pro	*(55)

MOUSE SYSTEMS

Cobra (joystick)	9.95

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	125
F-16 TQS	129
Flight Control System MK II	65
- w. US Navy Fighters	85
Flight Control System Pro	119
Formula T2	*(109)
Rudder Control	114
Weapon Control MKII	109
UPROM	29.95
XL Action	28

OTHERS

Command Pad (by Quickshot)	9.95
CyberFlight Joystick + Dark Forces	39
CyberPad + Doom II	34
Game Gun + Crime Patrol	49
Gravis Analog Pro	29
PC Gamepad	19.95
Touche' Touch Pad for Serial / PS/2	*(55/55)
Color Mickey Pad / Flinstone Mouse Pad	5.99/7.99
Lion King Mouse Pad	5.49
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99
Winnie the Pooh Mouse Pad	5.49

14. NETWORK

The #1 Network Products Reseller

Over 30 Brand Names to Choose From

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1795)
3C509B Etherlink III Coax / 5-Pack	*(109/466)
3C509B Etherlink III TPO oem	*(69)
- single reg / 5 Pack	*(105/415)
3C509B Etherlink III TP+AUI oem	*(78)
- single reg / 5-Pack	*(108/449)
3C509B Etherlink III Combo oem	94
- single reg / 5-Pack	119/525
3C562 PCMCIA Lan + Modem TP	495
3C579 Etherlink III EISA Coax / TP	218/219

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

3C589 PCMCIA TP / 5-Pack	*(155)/699
3c589 PCMCIA Combo / 5-Pack	*(199)/925
3C590 PCI TPO oem	115
- single reg / 5-Pack	135/565
3C590 PCI Combo oem / reg	145/*(165)
3C595-TX PCI 10/100 TP oem	149
- single reg / 5-Pack	169/725
3C597-TX EISA 10/100 TP	239
3C871 Impact ISDN Digital Modem Ext.	369
3C16170 Link Builder (12TP)	335
3C16180 Link Builder (9TP + BNC)	185
3C16670 Link Builder FMSII 12 Port	565
3C16671 Link Builder FMSII 24 Port	995
3C30500 Linkswitch 500 Stackable 10 Port	2595
3C16900 Linkswitch 1000 24 Port 1 Fast	3195
3C16640 Linkswitch 1200 6 Port, FDDI Link	4595
3C22000 Linkswitch 2200 16 Port, FDDI	6395

ADAPTEC

ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
ATM 155 Mb/s 512k PCI UTP	725

ALLIED TELESYN

MicroHub MR420T 4 Port (4TP + AUI)	129
MicroHub MR820TR 8 Port (8TP + AUI + BNC)	139
Transceivers: MX10 (AUI - BNC) / 210T (AUI - TP)	29/29
Workgroup Hub 3012T 12 Port (12TP + AUI)	239
Workgroup Hub 3012TR 12 Port (12TP+AUI+BNC)	279
Workgroup Hub 3016TR 16 Port (16TP+AUI+BNC)	335
Workgroup Hub 3024TR 24 Port (24TP+AUI+BNC)	469

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(399)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	235
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)
Lantastic 6.0 for single / 5 / 10-user	79/329/599
- upgrade for single / 5 / 10-user	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(74/338/617)
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)
NR-SI 2000A Combo	*(89)

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(265)
EtherPAC 2000+ T	*(55)
Fast Ethernet 100BaseTX 12 Port HUB	*(1475)
FriendlyNet with BNC Adapter / TP Adapter	59/55

ASCEND

ISDN Pipeline 25 Single / w. NT1	599/725
ISDN Pipeline 50 Single / w. NT1	735/875
ISDN Pipeline 50 w. UBRI	1250

ATTACHMATE

Products	Call

BOCA

BEN110 ISA TP / BEN120 Combo	55/65
BEN210 8 Port HUB	125
BEN1VL VLB TP / BENPi PCI 32 bit Combo	69/*(79)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arc Serve NLM for Win	
- 5 / 10 / 25 / 50-user	249/475/825/995
Arc Serve for Win NT Single Server	*(475)
Arc Serve for Win NT Enterprise	*(795)
Arc Serve for Mac - 5 / 20-user	159/309
Arc Solo Backup s/w for Dos / for Win	119/118
Fax Server NLM - 5 / 10 / 25-user	255/325/449

CISCO

Lan to Lan Personal Office ISDN - BRI	495
Lan to Lan Remote Office ISDN Single BRI	1295

CNet (Advanced Network)

2000E+ Coax / 2000E+ TP	*(32/29)
2000E+ Jumperless Combo	*(35)
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(95)
8816TPC HUB: (16TP + BNC)	*(225)
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	109/*(99)
Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
EM400 PCI Quartet Fast (4UTP)	995
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo.	*(119/129)
EM964TP 32 PCI 4-Port Full Duplex TP	469

DANPEX

ArcNet & Token Ring products	call
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo	*(79)
EN-500 5 Port Mini HUB (6TP)	85
EN-800A Slim 8 Port HUB	115
EN-1600 16 Port HUB	235
ER-400 4-port Repeater Coax	299
ET-510 UTP to AUI Translator	107
ET-509 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX 10/100	*(145)
FE-1400TX PCI 100BaseTX 10/100	*(149)
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

DCA

IRMA Workstation 2.1 for Dos / for Win	259/359
IRMA 3270 Conversion ISA	445
IRMA 3270 for Mac II / LC / SE	735

DEC

Bridges, Routers, Hubs	Call

DIGIBOARD

Data Fire: Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	550
PC IMAC/4-1 : Multi ISDN Expension	695
PC IMAC/4-2 / PC IMAC/4-4	1095/2195

FARALLON

Connection Products for PC & MAC	Call

HP

Advanced Stack 8 Port HUB 10BaseT	245
Advanced Stack 12 Port HUB	575
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
J2550A Jet Direct TP (for HP 4 series)	315
J2552A Jet Direct Combo (for HP 4 series)	375
J2382B Jet DirectEX (for HP 5P)	349
J2593A Jet DirectEX Plus 3 Combo	449

IBM

Ether 16 Coax / TP / Combo	69/69/79
ISDN Wave Runner ISA	495

INTEL

EILA 8225 EtherExpress 32 Flash EISA Combo	219
EILA 8265 PRO/100 for EISA	*(199)
PILA 8465 PRO/100 PCI TP oem / reg.	*145/195*
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	125
- *PCLA 8200 5 Pack*	*(525)
- *PCLA 8210 BNC + TP oem / reg*	*(85/104)
- *PCLA 8210 5 Pack*	*(449)
- *PCLA 8220 TP oem / reg*	*(74/99)
- *PCLA 8220 5 Pack*	*(439)
- PCLA 8205 Flash BNC+AUI+TP	135
- *PCLA 8205 5 Pack*	*(539)
- PCLA 8215 Flash BNC + TP / 5 Pack.	125/499
- PCLA 8225 Flash TP / 5 Pack	119/469
EtherExpress Stackable 12 Port 100 TX Hub	1695
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BaseT	399
Netport Express XL / 3-pack.	465/1295
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000JT 16 bit TP	*29)
2000RAL 16 bit Combo	*(33)
EP3020A Pocket Combo	109
EM5100 PCI Combo	79
HUB : 8 Port (8TP + BNC)	*(99)
HUB : 16 Port (17TP + 1AUI + 1BNC)	*(199)
HUB : 16 Port (17TP + 2BNC + 2AUI)	*(225)
Personal Netware Coax Starter Kit	125

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	355
XJ10BT PCMCIA Ethernet TP	*(149)
XJ10BC PCMCIA Ethernet Combo	*(175)
XJEM 3288T: Modem 28.8 + Ethernet TP	429
XJEM 3288C: Modem 28.8 + Ethernet Combo	455

MICROCOM

Lan Express 2000 4 Port / 8 Port	2550/3550

MICRODYNE

EH800E 8 Port HUB	*(139)
EH1200E 12 Port HUB	*(169)
NE2000+ Coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE2500 Combo, plug & play oem	*(69)
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	*(119)
Synchronous .35 WAN Adapter / .35+	450/869

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)
InfoMover NE2000+ TP / 5 pack.	*(65/299)
InfoMover NE2000+ Combo / 5 pack	79/*(399)
InfoMover NE4100 PCMCIA Coax / TP	*(168/169)

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 5.0 single / 10-user	295/1295
Netware 3.12 (3.5" FD or CD)	
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware 4.1 (CD only)	
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware Connect 2 Ports / 8 Ports	375/1395
Netware Connect 32 Ports	3895
Netware Management Agents	335
Netware NFS v1.2C	2850
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.1 - CD version	319
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(395)

SMC

Ether EZ TP	*(99)
Ether EZ Combo oem / reg	*(79)/115
Elite Ultra 32 EISA Combo	215
Etherpower PCI TP (8432T)	*(139)
Etherpower PCI Combo oem / reg	*(125/155)
Etherpower PCI 10/100 (9332DST)	*(155)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 100TX 16 Port	2895
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

THOMAS CONRAD

TC5143T ISA TP / 6-pack	79/395
TC5048T PCI TP / 6-pack	145/635
TC5048T2 PCI Combo / 6-pack	175/785

WISECOM

E300CT PCI 32 bit Combo	65
H008CAT 8 Port HUB (8TP + AUI + BNC)	*(89)
P200CT 16 bit ISA Combo, plug & play	45
R200CT 16 bit ISA Combo	*(29)

XIRCOM

ISDN Basic Rate Adapter	*(359)
PCMCIA CE2-10BT TP	*(139)
PCMCIA CE2-10BC Combo	*(185)
PE3-10B2 Pocket Adapter Coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(279)
PS-CEM28-BT 28.8 Modem + Ethernet TP	425
PS-CEM28-BC 28.8 Modem + Ethernet Combo	495

OTHERS

CD Link Access for Novell Netware	
- 5-user / 10-user / 25-user	79/159/225
Corel SCSI Network Manager	415
Meridian CD-Net 10-user	449
Microtest Discport CD Rom Server Ethernet	699

CABLES & ACCESSORIES :

10BaseT, Level 3 plenum 1000'	165
Belden 8259, RG58 1000'	165
RG58 U 500' / 1000'	69/99
RG58 A/U 500' / 1000'	75/129
Twisted Pair 2-pair, PVC, Level 3, 500' / 1000'	45/59
Twisted Pair 4-pair, PVC, Level 3, 500' / 1000'	55/89
Twisted Pair 4-pair, PVC, Level 5, 500' / 1000'	79/135

15. NOTEBOOK

ACER

ACERNOTE PRO :	
Model 954, P-75, 8MB RAM, 256k, 810MB HDD, 10.4" Dual Scan Color, w. Windows '95	2675
Model 955, P-75, 8MB RAM, 256k, 540MB HDD, 10.4" Active Color	3085
Model 957, P-75, 8MB RAM, 256k, 810MB HDD, 10.4" Active Color	3175
ACERNOTE LIGHT	
Model 352, DX4-175, 8MB RAM, 256k, 420MB HDD, 10.4" Dual Scan Color, 1.44MB FD, Win'95	2069
Model 355, Cyrix 5x86/100, 8MB RAM, 500MB HDD, 10.4" Dual Scan Color, 1.44MB FD, Win'95	2279

AST, NEC, TOSHIBA

	call for current prices

SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2499
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	2945
SP918T Pentium 75MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3195

OTHERS

Smart Book IV-P Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz / 90Mhz	2229/2299
- w. Dual Scan Color 75Mhz / 90Mhz	1959/2019
- w. VLB Docking Station	425
Smart Book V-Pro w. CD Rom :	
- w. Active Color 100Mhz / 133Mhz	2819/3099
- w. Dual Scan Color 100Mhz / 133Mhz	2639/2869
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), VLB w. 1MB video ram, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1549
- 486-DX2-66, 340MB (TFT)	1899
- 486-DX4-100, 340MB (DSTN)	1589
- 486-DX4-100, 340MB (TFT)	1919

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	105
BK-400 Back-UPS (300W)	154
BK-450 Back-UPS (325W)	179
BK-600 Back-UPS (425W)	249
BK-900 Back-UPS (650W)	345
BP-280 Back-UPS Pro PNP	159
BP-420 Back-UPS Pro PNP	235
BP-650 Back-UPS Pro PNP	289
SU-450 Smart-UPS (486, 586 WS)	285
SU-700 Smart-UPS (486, 586 FS)	349
SU-1000 Smart-UPS (486, 586, FS & WS)	485
SU-1400 Smart-UPS (multiple FS & WS)	639
SU-2200 Smart-UPS	1150
SUVS-420 Smart Value Server	239
SUVS-650 Smart Value Server	295
SUVS-1000 Smart Value Server	415
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69
Surge Arrest (PER 7)	17.99
Surge Arrest w. TEL (PER 7)	24.99
Surge Protector (P7)	9.99

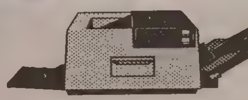
PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	134
- for Desktop / Full Tower	169/165
Turbo Cool 400	
- for Slim / Full Tower	*(199/199)
Turbo Cool 450 for Full Tower	299
Turbo Cool 450 for Full Tower (3.3 volt)	325
Turbo Cool 550 for Full Tower	375
Twinpower 900 (redundant)	925

Accessories :

Multimedia DT-890B / DT-830B	19.95/7.95
Multimedia M-3900 / E-5308	16.95/9.50
Power Center Switching Systems	13.50
Test Probe / Tool Kit	1.99/7.95

17. PRINTER / PLOTTER



BROTHER

HL-630 Laser 6ppm	399
HL-645 6ppm, 1MB RAM	459
HL-655M for PC & MAC, 2MB RAM	599

CANON

BJ-10SX / w. Sheet Feeder	*(195/205)
BJ-200EX Bubble Jet, 360x720dpi	*(215)
BJC-610 Ink Jet, Color, Par, 720dpi	549
BJC-4100 Ink Jet, Color, 360x720dpi	375

CITIZEN

GSX-230 Fonts & Quiet	189
GSX-240 Scalable Fonts & Quiet	245
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	229

Accessories:

Color Option for GSX-130	45
Color Option for GSX-145	65

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i, 300dpi, 5ppm	285
- Color Upgrade	39.95

EPSON

FX-870 9-pin	299
LQ-570 Plus 24-pin	259
LQ-870 24-pin, Par	455
LQ-1070 24-pin, Wide	399
Stylus II Color Inkjet 720/360dpi PC & Mac	429
Stylus IIS Color 720/360dpi PC	*(299)
Stylus IIS Color 720dpi PC	*(279)
Stylus Pro Color, laser quality	769

Accessories :

Black Ink for II & IIS	19.95
Color Ink for II & IIS	29.95

HP (w. toner)

Color Laser Jet	5535
Desk Jet 600 / 660C / 850C	299/399/495
Desk Jet 1600C PC, Mac	1329
Desk Jet 1600C Postscript PC, Mac	1919
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5L	519

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*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

Laser Jet 5P / 5MP	*(849)/1049
Laser Jet 5Si / 5SiMX	2875/3995
Office Jet (printer- fax- scanner- copier) 4-in-1	699

Accessories :

Color Kit C3067A for 540 / C4533A for 600	45/47
Duplex C3762A for 5Si / 5SiMX	479
Envelope Power Feeder 75 Sheet (HP4)	279
Legal, Letter or A4 250 Sheet Tray (HP4)	99
Legal, Letter or A4 500 Sheet Tray (HP4)	109
Optional 500 Sheet legal Letter A4 (HP4)	279
Postscript (C2013A) for 4Si	575

Ink Cartridges :

Black (HP51626A) for 500, 540, 560	24.45
Color (HP51625A) for 500C, 550C, 560C	28.95
Black (HP51629A) for 600, 660	24.95
Color (HP51649A) for 660C	29.25
Black (HP51645A) for 850C, 855C, 1600C	19.50
Color (HP51641A) for 850C, 855C, 1600C	27.95
Black (HP51640A) for 1200C	24.95
Cyan (HP51640C) for 1200C	29.95
Magenta (HP51460M) for 1200C	29.95
Yellow (HP51640Y) for 1200C	29.95

Toner Cartridges :

Toner (HP92295A) for II, IID, III, IIID	69
Toner (HP92275A) for IIP, IIP+, IIIP	69
Toner (HP92298A) for 4, 4M, 4+, 4M+	109
Toner (HP92274A) for 4L, 4ML, 4P	65
Toner (HP92291A) for IIISi, 4Si, 4SiMX	129

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)*

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)*

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	449
OL400E Laser	*(375)*
OL410E Laser 4ppm, 600ppi	*(499)*
OL600E Laser	399
OL610E Laser	499
OL610ePS Laser Postscript	*(725)*

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	695

Accessories:

HP-GAL Emulation Card	375
Ink Cartridges	19.50
Postscript Emulation Card	375
Sheet Feeder I	135
Sheet Feeder II	115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2130 Quiet Dot Matrix	*(after rebate, 169)199
2135 Quiet Dot, Color.	*(after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)*
4430 Laser 5ppm, 1MB	665
4440 Laser 10ppm	955
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430, 4400, 4450, 4450i, 4455...etc. available	**Call or Visit our Stores**

SEIKO

Smart Label Printer EZ30	145
Smart Label Printer Pro	245
Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

LASER PRINTER ACCESSORIES :

PACIFIC DATA

25 in One! for HP Deskjet 500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	189
Font Bank for all HP Lasers 0.75MB	189
Pacific Connect XI : for HP II, IID, III, IIID - 5 Port 256k / 10 Port 256k / 1MB (10S)	239/259/329
Pacific DirectNet for Novell, Unix & Etherlink	299
Pacific DirectNetEX for Novell & TCP/IP	399
Pacific 4, Postscript for HP4	249
Pacific Page II/XL 4MB, Postscript for HPII	329
Plotter in a Cartridge for HPII	199

18. PROJECTOR

3M, NEC

projection products	call

PROXIMA

Desktop DP2300 LCD 8.4" 27mm 640 x 480	3750
Desktop DP2700 LCD 8.4" 33mm 640 x 480	5095
Desktop DP2800 LCD 8.4" 33mm 640 x 480	5595
Desktop 8400 LCD 16.7M Color, w. speakers	8295
Ovation 810 LCD 8.4" 2M Color, 640 x 480	2795
Portable Overhead A653 3000 Lumens	539
Portable Overhead A655 4000 Lumens	839

19. SCANNER

DELRINA

WinFax Pro Scanner	*(299)*

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635

LOGITECH (hand)

Scanman Color + PhotoShop L.E.	189
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	675
Scan Maker III w. TMA & OCR	*(1999)*

VISIONEER

PaperPort + OCR for Win	355

20. TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Dos/ Win/ Netware WS	89
Back Up Exec for Netware 7.0 Enterprise	845
Back Up Exec for Netware Single Server	435
Back Up Exec for Windows NT Server	439
Back Up Exec for Windows NT Workstation	189

COLORADO

DJ-35C (Jumbo 350) 340MB Int	109
DJ-35C Tracker 340MB Ext	*(129)*
DJ-50C (Jumbo 1400) 1.3GB Int w. Controller	229
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	899
Tape Stor 350MB Int	85
Tape Stor w. cartridge 420MB Int / Ext	135/279
Tape Stor w. cartridge 850MB Int	199
Tape Stor 850MB w. cart. Ext (printer port)	349

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/649
EXB-4200 4mm Dat. 2GB Int / Ext	799/975
EXB-4200C 4mm Dat. 2GB Int / Ext	895/995
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext.	1985/2275

HP

C1534 4mm Dat. 2-4GB SCSI Int	685
C1536 4mm Dat. 4-8GB SCSI Int	785
C1533 4mm Dat. 8-16GB SCSI Int	925
Colorado T1000 850MB Travan w. cartridge Int.	185
Colorado T1000 850MB, printer port Ext	219
HP Mounting Frame to 5.25" for C1533	27
HP Mounting Frame to 5.25" for C1534	25
HP Mounting Frame to 5.25" for C1536	25
Surestore 2000i (C1525F) 2GB w. Kit Int	895
Surestore 2000e (C1520F) 2GB w. Kit Ext	1075
Surestore 5000i (C1526F) 4GB w. Kit Int	1045
Surestore 5000e (C1521F) 4GB w. Kit Ext	1195
Surestore 6000i (C1528F) 8GB w. Kit Int	1225
Surestore 6000e (C1529F) 8GB w. Kit Ext	1395

IOMEGA

Ditto 800MB Travan Int	149
Ditto 800MB Travan Parallel	155

NOVASTAR (software)

Backup / Restore for MAC	58
Novaback 4.58 for Dos	59.50
Novaback for Windows	59
Novaback for Win '95	55
Novabakc for OS/2	58

OTHERS

COMBYTE : DP1800EA 800MB Int	135
SUMMIT : SE250 Int	135

TAPE CARTRIDGE :

3M - DC2120XL (350MB)	16.95
- MC3000XL (680MB)	26.50
- Travan (800MB), TR-1	27.95
- Travan (1600MB), TR-3	29.95
IBM - DC2120 (QIC 80)	13.95
Exabyte - 8mm 112M (5GB)	9.95
- 8mm 160MXL, for XL drives	15.95
- MC3000XL (1GB)	26.95
HP - 92283B 4mm 90M (2GB)	12.95
- 92300A 4mm 120M (4GB)	21.95
- 92283K 4mm Cleaning Tape 2-pack	21.95
- DT1400 (QIC 3020)	27.95
- Travan for DT-1000 2-pack	54.95
- Travan for DT-1000 3-pack	82

21. VGA CARD

ATI

Graphics Xpression 2MB PCI / VLB / ISA	199/199/199
Graphics Pro Turbo 2MB PCI / VLB / ISA	299/299/305
Graphics Pro Turbo 4MB PCI / VLB	429/419
Win Turbo 64 2MB PCI / VLB	259/259

DIAMOND

Edge 3D 2120 1MB DRAM	259
Edge 3D 2200 2MB DRAM	309
Edge 3D 3240 2MB VRAM	409
Edge 3D 3400 4MB VRAM	539
Stealth 64 1MB DRAM PCI	115
Stealth 64 2MB DRAM PCI / VLB	155/159
Stealth Motion Video Player 2200	259
Stealth Video 64 2MB VRAM PCI / VLB	259/259
- 2MB upgrade	155
Stealth Video 64 4MB VRAM PCI	439

MATROX

IMP Plus 220 2MB PCI	355
Millenium PCI 2MB / 4MB	315/459
- upgrade 2MB / 4MB / 6MB	179/339/455

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	*(149)*

MIRO

Video 20SD 2MB DRAM PCI	139
Video 20SV 2MB VRAM PCI	225

NUMBER NINE

FX Motion 330 DRAM 2MB PCI	165
FX Motion 771 VRAM PCI 2MB oem / reg	269/289
FX Motion 771 VRAM PCI 4MB oem / reg	409/429
GXe Level 12 VRAM 3MB ISA	299
Imagine 128 4MB PCI	599
Imagine 128 1600 8MB PCI	1175

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	79
Tarantula 64 2MB VRAM VLB / PCI	219/219
Tarantula 64 4MB VRAM VLB / PCI	335/335
Tarantula 64 MK II 4MB VRAM VLB / PCI	385/385

VIDEO LOGIC

928 Movie w. 1MB VRAM ISA	65

OTHERS

Boca Voyage Movie Player Accelerator VGA	285
Howard Video Camera	295
Intel Smart Video Recorder Pro	439
Movie Plus 1100 MPEF Decoder	199
Oak 087 Super VGA 1MB	65
Paradise Window Accelerator 24 bit VGA	109
S3 Vision 864 64 bit 2MB PCI	159
Snappy (video Snapshot)	198
Tvator Pro PC/MAC VGA to NTSC Scan Converter	139
Tvator Remote Pro VGA to NTSC Scan Converter	289
V-Mate Pro (video encorder : PC to TV)	189
Video Logic Captivator	135
Video Plus (color video grabber)	185
Vitex MCP Card (monographic)	19

SOFTWARE

1. PC SOFTWARE

ADOBE

Illustrator 4.0 for Win	425
Illustrator 4.1 for Win'95	325
Pagemaker 6.0 for Win	575
Photoshop 3.0 for Win oem	*(265)*
Photoshop 3.0 for Win & NT	565
Premier 4.0 for Win - FD/CD	445

AUTODESK

Animator Studio 1.1	249
AutoCAD Lite 2.0 - FD+CD	*(399)*
Autosketch 2.0 for Win / Win'95	135/89
Generic CADD 6.1	69

BORLAND

C++ 4.5 - CD for Dos, Win, Win32	325
- upgrade - CD	189
Delphi competitive upgrade	*(175)*
Paradox 5.0 for Win oem / reg	49/*(295)
- competitive upgrade for Win	119
Paradox 7.0 for Win'95 & NT	285
- upgrade	95
Power Pak for Dos	99
Sidekick 2 for Win	45
Turbo C++ for Dos / 4.5 for Win - CD.	92/79
Turbo C++ Visual Edt. for Win	79
Visual dBase 5.5 for Win / upgrade	269/118

COREL

CD Creator for Win'95	319
Corel Draw 4.0 - CD oem.	55
Corel Draw 5.0 - FD+CD / CD	*(459/395)*
- upgrade fr 3.0 - FD+CD / CD only	*(325/285)*
- upgrade fr 4.0 - FD+CD / CD only	*(189/165)*
Corel Draw 6.0 - CD for Win '95	*(365)*
- upgrade fr 3.0 / 5.0	299/225
Corel Flow	*(59)*
Ventura 5.0 - FD+CD / CD only	*(325)*

IBM

Anti Virus Desktop Edition	*(45)*
OS/2 3.0 Warp - CD / FD	*(55)/74
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD.	*(89)/118
Voice Type Dictation for Win (w. ISA board)	699

INTUIT

Quicken Deluxe 5.0 - CD / FD	59.95/59.95
Quicken Family Lawyer - CD	*(39)*
Quicken Financial Planner '95	38
Quicken 4.0 - CD oem / reg	15/29
Quicken 5.0 for Win	39.95
Quickbook 3.1 for Win (w. Quickpay)	95
QuickBook & QuickPay for Dos	99
QuickBook Prof. for Win	189
Turbo Tax State 1995 Final	24.95
Turbo Tax 1040 Final 1995	39.95
Turbo Tax 1040 Final Deluxe - CD	44.95

LOTUS

1-2-3 5.0 for Win / upgrade	299/99
1-2-3 4.0 for Dos / upgrade	365/99
Ami Pro 3.1 for Win	*(99)*
Approach 3.0 for Win / w. 1-2-3 upgrade	99/145
cc:Mail Desktop 2.1 for Win	69
cc:Mail Desktop 10-user License	359
cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Lan System 10 License	*(545)*
- Lan System Trade-up 10 License (router)	375
cc:Mail Mobile E-Mail 2.2 for Win	135
- upgrade	75
cc:Mail Router 5.1	*(79)*
Freelance Graphic 2.01 for Win	335
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 2.0 for Win	95
Smart Suite 3.0 - CD oem	*(125)*
Smart Suite 4.0	459
- upgrade	*(249)*

MICROGRAFX

ABC Flowcharter 4.0	315
Designer Tech. 4.1	455
Picture Publisher 5.0 for Win - CD	*(129)*
Picture Publisher for Win'95	249
Windows Draw 3.0	49

MICROSOFT

Access 2.0 for Win / for Win'95	289/299
- upgrade for Win'95	94
Access Developer's Kit	459
BOB (8 essential programs)	49
Dos 6.22 / upgrade	42/49
Excel for Win '95	298
- upgrade	*(89.95)*
Excel 5.0 for Win	*(285)*
- competitive upgrade	119
Flight Simulator 5.1 - CD	49.95
- Japan / Hawaii / New York / Paris / SF Scenery	19.95 each
Fortran 5.1 Compiler	155
Fortran Powerstation / upgrade	339/195
Fortran Powerstation 32 / upgrade to NT	495/275
Fox Pro 2.6 Single Dos or Win	*(95)*
Jana Contact 95	82
Macro Assembler 6.11 (MASM)	155
Mail Server 3.5 for PC	445
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	*(425)/459
- competitive upgrade - FD	275
Office Professional 4.3 - FD	*(499)*
- competitive upgrade - FD	*(345)*
- oem version FD / CD	*(299/199)*
Office Professional 4.3 + Bookshelf for Win '95	549
- upgrade - FD / CD	315/*(299)
Office Standard for Windows '95	455
- upgrade - FD / CD	225/225
PC Mail 5 / 20-user	269/865
Power Point 4.0 / competitive upgrade	*(299)/125
Profit for Win	129
Project 4.0 for Win / upgrade	415/135
Project for Win'95 / upgrade	419/139
Publisher 2.0 for Win - FD / CD	69/89
Source Save	475
Space Simulator	*(39.95)*
SNA NT Server / SNA NT Workstation	395/199
SQL NT Server 6.0 / upgrade	899/479
SQL NT Workstation / upgrade	479/239
System MGMT Server	629
Test 3.0 for Win / upgrade	569/185
Visual Basic 4.0 for Win'95 - Standard	*(85)*
Visual Basic Prof. 4.0 for Win - CD	445
- upgrade / competitive upgrade	89/229
Visual C++ Standard 1.52 - CD	89
Visual C++ 2.0 for Win NT (subsrcription)	469
Visual C++ 2.0 for Win & NT (on-line doc.)	369
Visual C++ 4.0 for Win '95	465
- subscription renew	285
- upgrade	235
Visual Fox Pro Standard 3.0	189
- upgrade	95
Visual Fox Pro Standard 3.0 for Win	449
- upgrade	275
Windows 3.11 / upgrade	51/49.95

(price) .... *SPECIALS / on SALE*   (oem) .... $, bunddled with hardware only

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Windows '95	*(179)
- oem version - FD / CD	99/99
- upgrade - FD / CD	*(89/89)
Windows '95 Plus - FD / CD	44/44
Windows '95 Resource Kit	29
Windows NT 3.51 Workstation - CD / FD	289/287
- upgrade fr v3.1 to v3.51	95
Windows NT Server 3.51	645
- competitive upgrade	649
- upgrade Server 20 license	255
Windows NT Server + 10 Client License	925
- License: single client / 20-client	35/499
Windows NT Step-up fr 3.5 to 3.51 :	
- for server CD / FD	68/95
- for workstation CD / FD	19/45
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	45
- Workgroups Add On 3.11 MS-DOS	52
Word for Win '95 / upgrade	295/*(89.95)
Word 6.0 for Win / competitive upgrade	289/119
Works 3.0 for Win oem	59
Works for Win'95	45
Works + Bookshelf Win'95 - CD	69

NOVELL

Perfect Office 3.0 for Win	399
Perfect Office Prof. 3.0 FD / CD oem	545/*(199)
- upgrade	289
Quattro Pro 6.0 for Win - CD	255
- upgrade / competitive trade-up	49/89.95
Wordperfect 6.1 for Win - FD / CD	*(235/229)
- upgrade / educational offer version	95/85

QUARTERDECK

Cleansweep for Win '95	*(28)
DesqView 386 + Qemm 7.5	85
DesqView/X 2.1	169
DesqView/X Network Manager (TCP/IP)	*(99)
Game Runner 3.0	29
Internet Suite 1.0	37
Mosaic 1.0	19.95
Qemm 8.0 for Win '95	63
- upgrade	36
Web Author 1.0	45
Web Server 1.0	104

SYMANTEC

ACT! 2.0 for Win	*(169)
C++ 7.0 for Win	189
Norton Anti-Virus '95	*(69.95)
- Trade up	29.95
Norton Anti-Virus 3.0 for Win & Dos	*(49)
Norton Desktop 3.0 for Win oem / reg.	95/112
Norton Navigator '95	89.95
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities '95 / upgrade	118/55
Norton Utilities 8.0 oem / reg	94/109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host for Dos	124
- v2.0 for Win	125
- for Win'95 & NT	129
Q & A for Win	159

MACINTOSH TITLES

Adobe Illustrator	375
Adobe Pagemaker 6.0	565
Adobe Photoshop for Power Mac	565
Adobe Premier	475
Claris File Maker Pro	95
Fractal Design Painter	315
FrameMaker 5.0 for Power Mac	569
Lotus CC Mail 2.2	69
Macromedia Fontographer	319
Macromedia Freehand for Mac & Power Mac	379
Macromedia Macro Model	179
Microsoft Excel 5.0	299
Microsoft Office 4.21	465
Microsoft Word 6.0	299
Netscape Navigator	38
Outlook PC File Exchange	75
Quark X'Press FD / CD	619/685
Symantec Anti-Virus 4.0 (SAM)	69
Symantec Think C	189
Symantec Utilities 3.1	95
Turbo CAD 3D	159

OTHERS

3D Eye : TriSpectives / Professional	279/459
After Dark III - FD	29.95
- Complete After Dark - FD	39.95
After Dark for Win '95 - CD	*(18)
- Complete After Dark for Win '95 - CD	39.95
By Design for Win	59
Caere: Omni Page Direct OCR 2.0	65
Caere: Omni Page Professional 6.0 for Win	455
- upgrade	139
Caere: Wordscan 3.0 for Win	169
Caere: Wordscan Plus 4.0	389
- upgrade	139
CA Clipper 5.2 / upgrade	479/115
CA Simply Accounting Dos / Win	69/69
Cakewalk Home Studio (music)	99
Cakewalk Professional 3.0 for Win	235
Canvas for Win	265
- Trade-up	99
Carbon Copy 6.1 Guest & Host for Dos	105
Carbon Copy 2.5 for Win	*(115)
Check-It Pro vol.1 & vol.2	85
Check-It Pro Deluxe 2.0 for Dos	135
Claris: File Maker Pro 3.0 for Win	184
- competitive upgrade	95
Claris Works for Win	65
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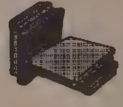

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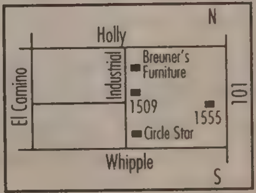

continued from page 148

The process of signing up, as the process of retrieving a Web page, requires you to identify yourself. If you're going to read a page, you have to send your IP address across the wire to the other side. So we know your IP address. When you volunteer, you put your email address in. You're becoming a voluntary part of the community. You're offering to help the school. That means that when that school group finishes on March 9, there's still a small community. The pages don't go away. The record of the school doesn't go away. The list of those that showed up on March 9 has big stars beside their names as heroes and heroines, the school champions. The ones that don't show up don't have stars. They look bad!

This is a serious project. If you're going to help the schools, go help. And the same with companies—if you're going to help, your company home page tells the story forever.

It's the same wave of change that's changing journalism. When you publish on the net, it doesn't go away. It stays, which is good and bad. It's good because it lets the good stuff stay around. It's bad because if you do anything stupid everyone will know it forever! [*laughs*]

We're all learning toleration, and I hope, empathy, which this brings us. Because when you bring up the map of California, you can see the dots that are red, and you can zoom in down to the street level. You can see the school down the block from you, that you have no way of knowing otherwise what they're doing—you can see that that school needs help, and go help them.

So it changes your relationship to all the entities in your community.

At what point do schools get involved in publishing themselves on the net? Because most of what you're talking about is more a matter of exchanging email and accessing what's on other servers, rather than being one's own server.

Right. At the moment, I've just created the twelve thousand home pages, and those will always remain. But on them are the pointers to the real home page for the school—the URLs are there. So if you've made your own home page, I'm a central point, I'm like a Yahoo, pointing off. If you've written a wonderful class curriculum, give me the URL, and I'll put it up in the info pages so all the other schools can reach it and take advantage of it.

Just as a catalytic element, announcing a day has suddenly allowed everyone in the schools who's been trying to wire the places for a long time to go to the central administration and say, "You know, I don't have to give you this request to put a conduit or drag a wire, I don't have to go through the normal bureaucratic thing any more, because you've all picked a day that we're all going to do this." It's liberating an enormous number of people, particularly the classified employees, who want to do this but have not been able to get permission from the district offices. All of a sudden this confluence of public attention has brought all of these disorganized elements together to focus on doing something on one day, and that gives them the power to do it.

When the California School Employees Association endorsed—they have 750 chapters—this was probably the most important element of this, because that means everyone who works in the schools, all the Californians that are making the schools run, have endorsed the idea of NetDay and are going to go out and help. Which means all union rules about who gets to pull wire are waived. This is great—we have a conjunction of the school administrative bodies, the PTA, the California School Employees Association, hundreds of companies—all these people focused on major activity to get something done.

There are about forty organizations that have endorsed this, or are in the process of endorsing it, which means they can then tell everybody what to do.

I think the conjunction is working. It's never happened before, and it took the Web to allow it to happen.

Okay, say I'm the reader, and at this point I want to get involved. What do I do?

Step one: Go to *netday96.com*, or *www.netday96.com* . Find a school. Volunteer.

You'll find that as you volunteer you're asked for your level of technical competence. If you're not technically competent, volunteer—but you're going to be making coffee.

You've now volunteered for the school; your name and email address are now attached to that school's home page. You joined the group now, and you've said you'll show up on March 9.

Second step: Read the information pages on the Web site to learn about Category 5 wire. We're using a new mechanism to teach just the mechanics of doing the wiring. Books That Work in Palo Alto, which makes wonderful books about building decks and wiring, is extending its animations and tutorial materials to show you how to strip the insulation from Category 5 wire, undo the twisted pairs just the right length, put them into the RJ45 plug, put the whole thing together. It's not complicated; it just has to be done correctly.

So they're developing that material—it'll be HTML pages on the Web site, and you'll be able, at any moment in this project, to learn about how to do it. Increase your technical skills. Does this make you more employable? Absolutely. Couldn't hurt.

For NetDay you need about an hour's worth of learning about how wire works, where it comes from and where it goes and how you terminate it, just the technical details of that. All on the Web site.

Then, find the other members also volunteering for your school, and have them come over for coffee. Form a group that's responsible for working on the school. That's it.

If you'd like to sponsor a school, that is, provide the money for the kit which is about $350–500, depending on the vendor, all the information about that is on the NetDay 96 Web pages, showing each of the different manufacturers' kits. We've asked the manufacturers to assemble kits with 2–3000 feet of wire—I'm arguing for 3000—all of the requisite terminations, the jacks and the plugs and the patch panels, that box of stuff will all be from that particular vendor.

It may be that your school already has networking equipment made by somebody else. It doesn't matter, because all these are protocol standard devices—an RJ45 plug is the same, no matter who the vendor, but it may be more comfort-

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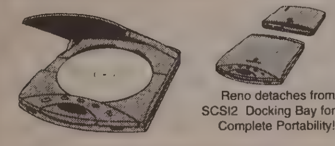
Multimedia Kit Deal #1

- Media Vision *Reno* External CD ROM/Audio CD Drive:
  - Consists of new external Reno CD/ROM drive, docking bay with SCSI2 port, AC Adapter
  - Double-speed 180mS drive is lightning fast!
  - Drive detaches from docking bay, use with headphones as a portable personal audio CD player
  - Great for Mac or IBM (adaptor bracket included)
  - Brand new in box, 90-day warranty

Media Vision Reno Kit HSC#15586 **$89.95**



Reno detaches from SCSI2 Docking Bay for Complete Portability!

- **Media Vision *Reno* Kit HSC#15586 includes:**

A. Rechargeable Battery Pack
B. Reno Cable Kit (SCSI2 - DB25 cable, 50p. ribbon cable, internal & external audio patch cables).
C. Padded Travel Pouch
D. Internal SCSI IDS50 to DB25 Adapter bracket for IBM, use with Reno cable kit (above) & your SCSI card for convenient SCSI and audio connections
E. Headphones (not shown)

- ***Reno* Accessory Available Separately:**

F. Macintosh Powerbook SCSI Adapter (HDI-30 to 25-pin D connector) **HSC#15704** **$12.50** if purchased alone, or with purchase of Reno Kit, **$5.00**

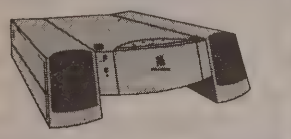
Multimedia Sound Card!

- Mediavision Pro Audio Spectrum SCSI Sound Card
- 8-bit Sound Card with SCSI Port, great for controlling internal CD/ROM's (see CD/ROM Specials at left, below)
- Joystick Port, Mic. input, Line In & Line Out jacks
- Installation disk, instruction sheet included
- New in OEM packaging (envelope, no box)
- 90-day warranty
- Use with Labtec CS-550 speakers (HSC#15517 $9.95) for great sound combo!

Mediavision Sound Card HSC# 15585 **$19.95**

Multimedia Kit Deal #2

- Media Vision ***Memphis*** Kit (Limited Quantities Available)
  - Drive unit consists of new SCSI double -speed drive, custom enclosure, and detachable Bose active speakers with 10W/Channel amplifiers.
  - Includes Pro-Audio Spectrum 16 SCSI sound card, with special interconnect cable.
  - MPC & MPC2-compliant, true 16-bit stereo sound
  - Midi ports and audio jacks on back, NEC CDR210 CD/ROM Drive has tray, does not need caddies.
  - Supports DOS, Windows 3.1, Sound Blaster and Ad-Lib, joystick and full-duplex MIDI, so it can run nearly all audio applications ever made for PC's!
  - Awesome sound from Bose speakers!
  - Comes with copies of instruction manual, installation software, 90-day warranty



Media Vision *Memphis* kit HSC# 15753 **$159.95**

High Power AA NiCads!

- New Kenwood AA NiCad Batteries
- High quality, new, shrink-wrapped
- 1.2V at 800 mAh!
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- Sorry, no quantity discounts

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- Handheld remote is 7" x 2.5" x .5"
- Included software provides screen pointer for emphasis
- Keystroke mapping table can be customized, saved
- Roam the room, make eye contact with your audience
- Like using a TV set remote control (easy to set-up, use)

HSC# 15240 IBM Remote Keyboard **$29.95**
HSC# 15241 Mac Remote Keyboard **$39.95**

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- Take advantage of our case/lot pricing for extra savings on popular Chemtronics products.

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- *Tun-o-wash* cleaner/lube, 12.5 oz.
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- *Ultrajet 2000* duster system, 10 oz.
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- *Ultrajet 2000* refill, 10 oz.
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- Other Chemtronics case prices avail.

Network Card Bargain!

- Racal Interlan 16-Bit Ethernet Cards
- High Quality US Product, 10-Base-T or AUI
- Manual, Software included
- NE2100 Compatible, NI6510 Compatible
- Handy 5-pack contains 5 cards, 1 Manual and 2-disk software pack

HSC# 15364 **$99.95 / 5pk.**

Photomultiplier Bargain!

- Just in - two styles of Phillips photomultiplier tubes!
- XP2412 has large (3") face, 9 multiplication stages.
- XP2102 has small (2") face, 9 multiplication stages
- Both tubes are 2" dia. body, 6" long over-all length.
- Note, these are light detectors, not image amplifiers
- No specs. available at press time, we're looking!
- New tubes, appear to have voltage multiplier built-in

Philips XP2412/SQ5 (large) HSC# 15734 **$27.50**
Philips XP2102/SQ5 (small) HSC# 15735 **$27.50**

SCSI Drive Case #1

- Bargain case for 5.25" drives, brand new!
- 7" x 4.5" x 10.5" overall size
- 50-pin SCSI connectors
- SCSI ID switch
- 65W Power Supply
- Fan-cooled, uses standard IEC Power cord (not included)

HSC# 15715 5.25" SCSI Drive Case **$39.95**

Lower CD/ROM Prices!

- Tested Good CD/ROM Drives removed from systems
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- Sony drive is tray-type (no caddy needed)

Sony CDU-31 1X-Drive **HSC# 15650** **$35.00**
NEC CDR-84J 2X-Drive **HSC# 15648** **$59.00**
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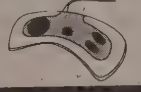

HSC#15594 **$3.95**

PCMCIA Sound Card!

- Media Vision PCMCIA 16-Bit Sound Card
- Great for Portables, Laptops with PCMCIA Slot
- External Pod has Joystick Port, Mic. input, Line In & Line Out jacks, Volume control.
- Microphone included
- We do not yet have the installation software or instruction sheet, call to confirm latest info.
- New in OEM packaging
- 90-day warranty

Media Vision PCMCIA Sound Card HSC# 15585 $39.95

Motor Mania!

- Small (1.5" x 1.5" x 1") Stepper Motor, 13.2VDC, .45A/Φ, 200 steps per revolution. No spec. sheet available yet.
  HSC# 15597 **$5.95**
- Small (1.625" x 1.625" x 1.25") Stepper Motor, 12VDC, .210A/Φ, 100 steps per revolution. Shaft is .125" dia., has .75" dia. crowned pulley for flat belt. Made by Berger Lahr, data sheet with connection diagram (in German) included.
  HSC# 15751 **$6.95**
- Small (1.75" dia x 1.875" overall body dim.) Linear Actuator Stepper Motor, 12VDC @ 5 Watts, 1" overall travel, .003" per step. Has 32 oz. (8.9N) maximum force, 8 oz. (2.2N) unenergized holding force. Shaft has .125" long x .0625" tip to attach item being moved, shaft does not rotate when actuated. Neat robotics actuator! Mfg. by Airpax, no connection diagram, but spec. sheet is included.
  HSC# 15750 **$12.50**
- Medium (1.5" dia. x 3") Pittman Motor, 19.1 VDC, with optical shaft encoder. Sorry, no data sheet available yet.
  HSC# 15654 **$9.95**
- Large (3.25" dia. x 6.25") 20VDC @ 5.7A Sanyo Denki permanent magnet DC Reel Motor, 9/16" shaft is stepped down to 1/2", 580rpm, or use as 70W generator! Attention robotics enthusiasts...this is a heavy-duty beauty!
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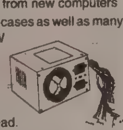
- Fits most Mini- and Mid-size tower cases as well as many small-footprint desk-top cases. 230W
- Measures 6" x 5.5" x 3.5"
- Has normal motherboard connectors, three large and two small drive connectors on 12" leads
- Push-type power switch on 18" lead.



HSC# 15736 **New Lower Price!** **$17.95**

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- Low-cost Digital Multimeter with High-end Features!
- 3.5 Digit, case measures 2.75" x 5" x 1"
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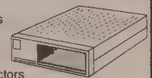
- DC Current to 10A, Ohms to 2 Meg
- Diode, Transistor check with hFE
- Test Leads, 9V Battery included.
- Brand New, 90-day warranty

HSC# 80370 **$19.95**

SCSI Drive Case #2

- Low-profile case for 5.25" drives
- Perfect for lower-power drives
- 9.5" x 2.5" x 10.5" overall size
- 50-pin SCSI daisy-chain connectors
- Internal audio cable, RCA jacks on back, SCSI ID switch
- Uses External 15-16VDC, 1-2A Supply (Not Included)
- Internal Regulator board can deliver +5, +12 @ 1.5A



HSC# 15245 Low-Profile 5.25" Drive Case **$17.95**

Large assortment of AC Adaptors!

Fig.	Output	Plug	HSC#	Price
A	5VDC @ 500mA, ±12VDC @ 130mA	5p. DIN/M	12634	$4.95
A	5VDC @ 500mA, 12VDC @ 1A	5p. DIN/M	15140	$9.95
C	5VDC @ 600mA, ±12VDC @ 250mA	5p. DIN/M	15325	$12.50
C	5VDC @ 700mA, 12VDC @ 500mA	5p. DIN/M	15532	$4.95
A	5VDC @ 750mA, ±12VDC @ 500mA, 150mA	5p. DIN/M	12634	$14.95
C	5VDC @ 3A (IEC Cord not included)	4p. DIN/F	14996	$5.95
B	5VDC @ 3.5A	3.5mm Coax	15570	$8.95
B	6VDC @ 2A	2.5mm Coax	15569	$9.95
B	9VDC @ 200 mA	2.5mm	15571	$3.95
C	12VDC @ 500mA	6p. Molex	15668	$4.95
A	12VDC @ 2.5A	6p. Molex	15450	$12.50
B	13.5VDC @ 1.5A	Special Coax	15643	$9.95
B	18VDC @ 300mA	None	14024	$1.95
B	9VAC @ 400 mA	3mm Coax	13000	$3.95
C	9VAC @ 1.7A	3mm Coax	12796	$5.95
A	10VAC @ 2.2A	Screw Term.	13918	$5.95
B	12VAC @ 9.6A	3.5mm Coax	15372	$5.95
A	14VAC (CT) @ 1.1A	3p. Molex	14617	$7.95
B	15VAC @ 100mA	2.5mm	11797	$1.95
B	16VAC @ 300mA	None	12916	$3 95
C	16VAC @ 1A (110/220VAC Input)	2.5mm Coax	15700	$7.95
A	16.2VAC @ 1.1A	2.5mm Coax	15152	$3.95
C	16.4VAC(CT) @ 1.4A, 25.6VAC(CT) @ 180mA	6p. DIN/M	15309	$7.95
A	18VAC @ 550mA	5p Molex	15399	$3 95
B	20VAC @ 400 mA	3mm Coax	12601	$4 29

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able for the staff in a school to have it all from the same vendor. So check with the school, pick the vendor.

The third thing that would be very useful is, when you want to help, contact the principal of the school—they will know about NetDay, in some degree or another—and if you're technically competent, arrange with the staff person at the school, the janitor or the person responsible for data processing, to come look at the school and draw a site plan.

We need educated eyes to go to each school in California and write down, sketch a plan for the wiring, which would go from a central closet to five classrooms and a library and a computer lab. Preferably all in the same building, because we want to avoid the difficulties of moving from one building to another. Pick a building, devise a wiring plan, put it in AutoCAD or some drawing package so it's machine-readable, and we'll put it up as part of the Web page.

The secret trick is: Ask your school for the fire evacuation plan map. Many schools will tell you they have no plans of the school, but they do. It's the fire evacuation map that they have to file with the state. Get that, print it out, or convert it to some drawing package, and then you can annotate this with a long-term record that stays with the school and will benefit the school further.

If we're lucky, we'll finish with something brand new for the schools, a map of where all the wires go, where all the conduits are. This is critical for the school, and in many schools it doesn't exist.

So if you're a *MicroTimes* reader, one, volunteer. Consider becoming a sponsor to adopt a school and provide the money necessary for the wire—get several other people to join you.

Get your user group to do it!

Get your user group. Please pick schools that are in trouble, that is, schools that are remote or urban.

As this goes forward, every day you'll see on the Web pages the schools that are in need—pick them, volunteer for them, and you'll see their dot change color on the map. Then you will be able to go to the Web page and find the instructions on how to get to the particular school, or to the county office of education, where you can join a pool of people who will then be carried in cars and vans to the schools that need help as the day goes forward. So there's a mechanism to organize on the day.

The last thing you can do—I'm putting a list up of every politician that's running for office in California. And then, because you can search the volunteer database, you can instantly see whether this person has signed up for a school or not. And I'm going to put a star after the name of all those candidates that are running for office that are working on NetDay, and I'd hate to be a candidate running for election in the state of California who is not supporting wiring their children's schools on NetDay.

Somebody's sure to ask: What's in this for Sun?

That's an interesting question. Sun makes big servers and desktop machines that are used by people to visualize things. What we do is too expensive for schools generally, except it turns out that old castoff Suns that were desktop machines are perfect servers for schools, so we contribute those.

This is not a market for us, particularly. Sun's market is in the arena of people that have very, very smart people that need to accomplish a lot in a very short period of time, and it doesn't matter how much money you spend on those devices, because it saves someone's time—traders on stock market floors, or analysts that are today controlling every airplane flight into Bosnia, or the people that are doing real-time control of drill rigs drilling for oil, or people that are running large organizations where you have to respond instantly to what's going on. People that are at the forefront of research, controlling space vehicles—these things are all done on Suns.

The benefit to Sun in all this is the spreading of the network and its powers into the communities that can most benefit from it; those are the communities that are at the moment the most isolated and the least connected to the economic flow. That means South Central LA, that means Richmond, that means remote rural communities. Networked, they're all part of a world economy, and can join in and benefit from it.

So we'll benefit as a company by more people using the network and buying computers. So will every other computer company.

We do have a particular point of view at Sun, which is that everything should be open, and everything should be accessible to everyone—in this case, a perfect match with the browser on everybody's desk with access to everything on the net. That allows people to build new things that never existed before.

We'll benefit also in an indirect way from the increased capacity of California students to create new products and new software on the net. Luckily as this expands we'll find the same thing happening in California that we find worldwide—namely, I don't need to go any more to Japan for a week-long series of meetings with people to understand what they're doing. It's now all on the net. So I'm able to communicate, browse, assess the technical capabilities, follow scientific research worldwide, without leaving Berkeley.

That same power will allow us to see every student in California's work, and if we're interested in finding the smartest people, as we are, and hiring them so they can create new things, this is a very powerful mechanism for us to do this.

And at the same time it allows people who normally wouldn't be on a path to Sun to get on a path to Sun.

That's right. One kid in a garage in the most remote part of California that creates something new that's on the net can send an instantaneous email or put it up on a Web page and we'll see it. And we can decide whether we want to pay that kid, or hire that kid, or utilize that software. And so can Apple, and so can IBM and so can PacTel. Everybody has a new method of communicating, and I think this is going to be immensely powerful.

We do two or three million email messages a day at Sun—that's what keeps the company moving forward. So what we need when we hire people is people who are intimately familiar with that environment, and at the moment the schools aren't turning out people like that because they're not themselves involved in this form of electronic communication.

For the last five years we've worked on Java and the languages that allow you to create things on the net, believing that sooner or later the whole world would catch up and be on the net. And it's proving to be true now. ■

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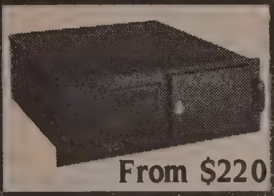

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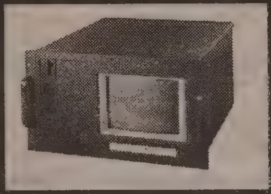

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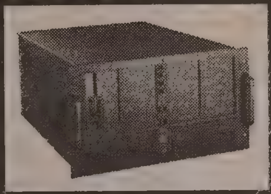

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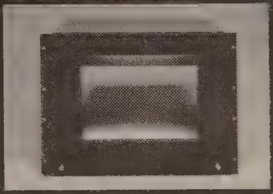

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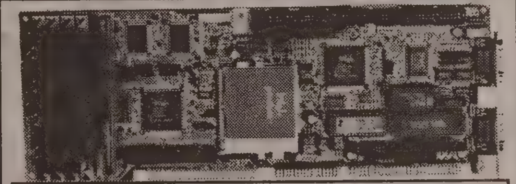

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FRACTAL PAINTER 4.0

continued from page 244

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THE IMAGE HOSE

Painter's smooth and natural-looking strokes come from its method of coverage. Instead of additive pixel progressions, the color and texture are created by a series of closely spaced "dabs" or pulses that may overlap.

An expansion of that principle drives the remarkable, if easily abused, image hose, a brush that "sprays" imagery. To paint with an image hose you must define the nozzle. Nozzles are really larger-scale brush tips, and the element that gets sprayed is a much larger "dab." The hose dab is so big and so definable that it can encompass a miniature clone of an image. It can even convert a QuickTime movie file into a hose dab, so that you can spray an area with a mosaic of motion. Things can get pretty strange in no time at all.

The natural media environment is further supported with the libraries of patterns and paper textures. Different grains paper interact with the strokes of the tools, and you can save a brush-paper combination as a brush look.

Using a digital tablet will complete that paradigm as you abandon the mouse for a pencil-like stylus. Painter is one of the programs out there that is coded for pressure-sensitive tablets. Just as with traditional tools, as you press with the stylus, the stroke will be graduated in darker, wider marks on your screen.

THE CREATIVE PIXEL

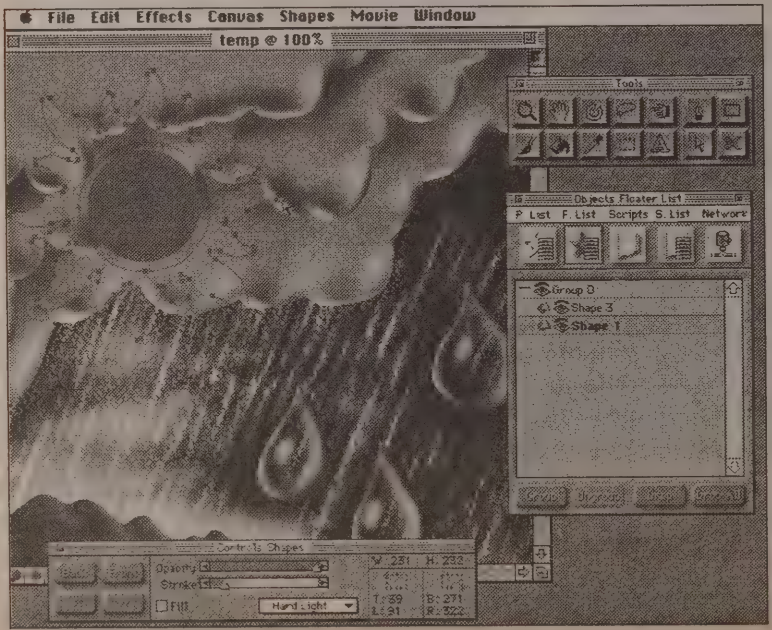
Nature can come at a price, however. Artists will be better off leaving behind the toxic elements and resource consumption of traditional media, but there is still that real sensory "bonding" between the maker and the work caused by physical materials. On paper and canvas you receive the holistic feedback of where you are and where your hand has been. On the screen it is only the eye that participates, because the mouse is an amnesiac. Brøderbund's KidPix program provides different sound effects for each tool. This helps beginners to connect action, stroke, and mark together. Painter is so vast that you would need a MIDI synthesizer plug-in to handle that paradigm.

> **With Fractal Painter and Adobe Photoshop, the digital canvas has reached a high state of utility and sophistication.**

Where Painter can really lose the natural feel is in the speed of the stroke. On a slow Mac or Windows machine, your cursor will lead the mark. If you are drawing with a single-pixel brush, for instance, your actions will be just as swift and simultaneous as with pencil and paper. The more complex and data-heavy the brush is, the wider the gap between the two. With blocking and filling brushes, you can be playing racer-chaser with as much as an inch of lead. This is a rather eerie sensation and takes a lot of practice to control.

On a Macintosh, you are better off with a PowerPC with a math coprocessor FPU (Floating Point Unit), and an 80486 or even a Pentium with an FPU, on the Windows side. Also, you may find instances when you are going back and forth between tools and complex actions too fast, and it may, once in a while, crash your computer.

continued on page 276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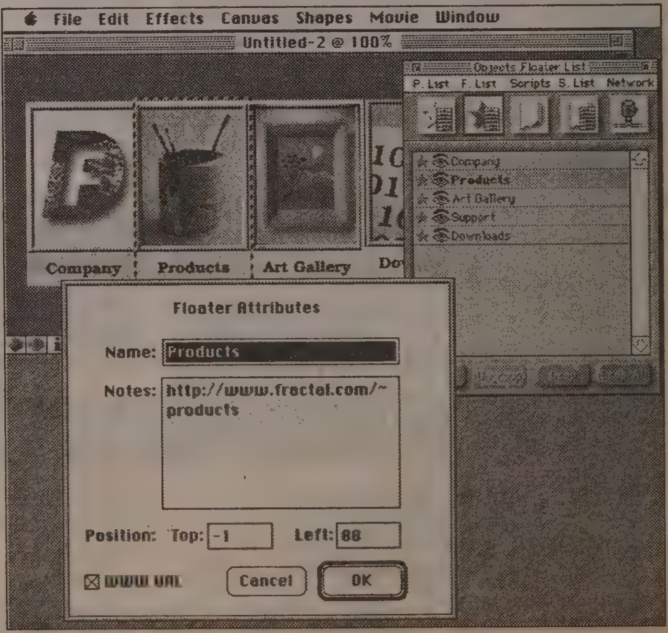
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EPS2015-041 EtherSwitch 15-pt w/SNMP	6,271
NLM Load Balancing Software	441
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ARCserve NLM 25/50/100	882/1,082/1,219
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DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR	1,590/1,986
XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

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3COM Impact ISDN 3C871 (MPPP)	426
Impact ISDN 3C872 (MPPP) w/ modem	590
ASCEND Pipeline 25 Base w/NT1	684
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Pipeline 25 w/NT1, COMP, IP	1,151
Pipeline 25 w/NT1, COMP, IPX	1,170
Pipeline 50 Single w/NT1, COMP, IPX,IP	933
Pipeline 50 Multi w/NT1, COMP,IPX,IP	1,302
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CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500/1000	3,801/4,982/6,229
DELRINA Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
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Starter Kit (1 Server, 2 nodes)	284
GLOBAL VILLAGE FaxWorks Pro 2/10/30	145/494/571
PURE DATA Satisfaxtion Modem 200/400	244/315
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MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

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Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Branch Link Router/Enterprise Router	765/1,902
NetWare NFS/Gateway Bundle	2,861
NetWare NFS Service for NW4.1	2,239
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140

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MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

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SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
ONTRACK Data Recovery NetWare	214
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

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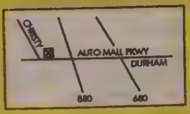

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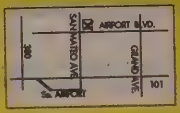

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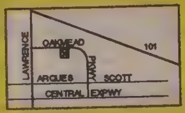

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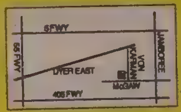

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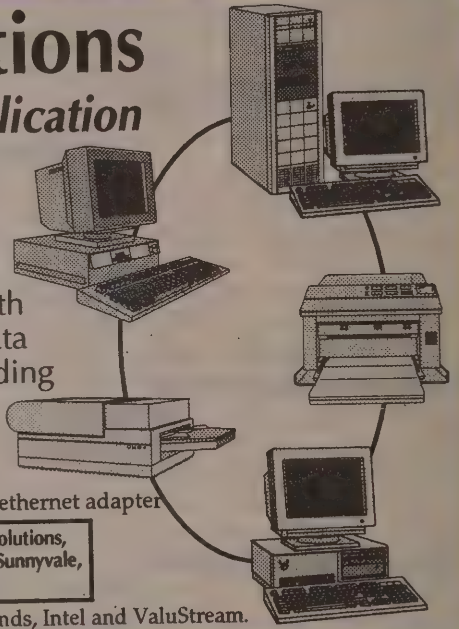

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FRACTAL PAINTER 4.0

continued from page 272

NEW FEATURES IN 4.0

The Fractal guys hardly leave a pixel unturned with each rev, but here are the major additional features you will find in the $549 list package.

The mosaic feature is a knot of algorithms that will transform your sketch or any other image such as a scanned photograph, and render it in a pattern of cells that emulate historic tile mosaics. You can set many variations in terms of tile shape, size, grout thickness, and color. Or you can kick off by painting with mosaic tiles. Unless you get a lot of crafts clients, it is a nice effect that you probably won't use that much.

I have tried many net things, but not yet Painter 4's net painting. The new version has a networking feature that can support multiple users who can log into a single artwork session and take turns collaborating on a project. This can hold true on LANs or the Internet. I do wonder how much of a time lag there will be on strokes and between them. The enhanced interoperability between Painter and Adobe Photoshop, Adobe Illustrator, and Macromedia Freehand is welcome news.

Painter 3.1 could already be used for creating Web pages in GIF and JPEG formats, but now Painter v4 supports image maps, which have links to other pages or objects. You can take any floating selection and give it a Web URL, and return to edit the image map.

The most robust addition to v4 is Shapes. Developed in ColorStudio, the Shapes drawing layer can be grouped and interleaved with Painter's bitmapped floating selections. The drawing tools are similar to those in Illustrator and Freehand, and expand Painter to be an even more all-purpose graphic environment.

Shapes gives you a vector-based drawing program integrated with a paint program—the best of both graphic worlds. Using text within the Shapes environment will give you much more control than text within the paint environment.

Painter 4 comes with a library of selection paths—vector shapes like diamonds and stars, which provide instant armatures for further composition. These shapes are flexible; not only can you re-form them, but you can blend intermediate versions between shapes. You can export these shapes to Illustrator or Freehand. With masking and the floating of elements like layers, Painter 4 extends beyond bitmapped paint into very sophisticated and professional areas of creativity.

THE PAPER REDEMPTION

If you are seriously investing time learning an application that you intend to use a great deal, one of the trade books could be a wise investment. This is true even with Macintosh programs, which tend to be more intuitively clear and straightforward to use.

An application book can provide yet another angle on how to perform an operation that adds that inkling of insight to get you unstuck and keep you going. They provide different ways of approaching a step than the manual does, and add more demonstrations of how the application may be used.

For instance, the Fractal manuals are as excellent as they get, but sometimes little things get left out. In the painting tutorial, for example, when you choose color for the first time, it doesn't explain that

continued on page 300

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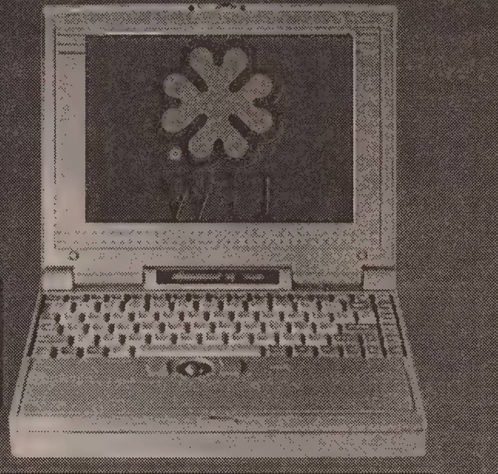

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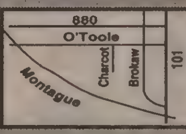

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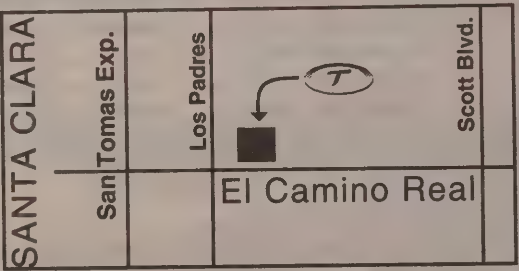
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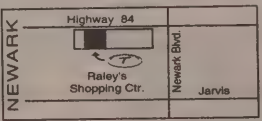
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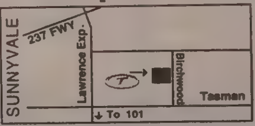
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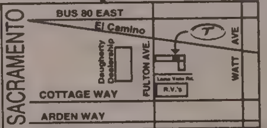
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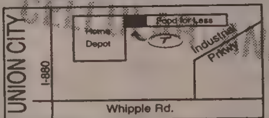
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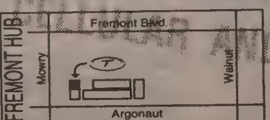
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Controllers 4
IDE & SCSI Controllers
Multimedia................. 5
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CD-ROM Titles.......... 6
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HARD DRIVES

Quantum

1.2GB ENHANCED IDE

- **Model# 31280A**
- **2 YEAR WARRANTY**
- **11ms FAST, 4500 RPM.**
- **128K Cache Buffer**
- **300,000 Hours MTBF**

$229

E-IDE & SCSI DRIVES

Fireball Series-(5400RPM/128K Cache/3 Yr Warr)

				INT	EXT
1.2GB	31280FBA	12ms	IDE	$229	$NA
1.08GB	31080FBS	12ms	SCSI	$257	$307
1.2GB	31280FBS	12ms	SCSI		$CALL

TrailBlazer Series-(4500RPM/128K Cache/3 Yr Warr)

840MB	30850TRA	14ms	IDE	$173	$NA
840MB	30850TRS	14ms	SCSI	$192	$242

Capella Series-(5400RPM/512K Cache/5 Yr Warr)

2.2GB	VP32210S	8.5ms	SCSI	$649	$719

Grand Prix Series-(7200RPM/512K Cache/5 Yr Warr)

4.3GB	GP34301S	8.6ms	3.5"	$962	$1022

Atlas Series-(7200RPM/1MB Cache/5 Yr Warranty)

2.1GB	XP32150S	8ms	3.5"x1"	$786	$856
4.3GB	XP34300S	8ms	3.5"	$999	$1069

Empire-II Series-(5400RPM/512K Cache/5 Yr Warr)

2.18GB	EMP2100S	8.9ms	3.5"x1"	$598	$648
4.36GB	EMP34360S	8.9ms	3.5"x1"	$New	$Call
9.10GB	EMP39100S	8.9ms	3.5"	$New	$Call

IBM

1.0GB FAST SCSI-2

- **Model# DPES-31080**
- **3 YEAR WARRANTY**
- **10.5ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **500,000 Hours MTBF**

$249

External .. $299

IDE & FAST SCSI-2 DRIVES

Deskstar XP -(MR Head Technology/3 Yr Warr)

				INT	EXT
1.0GB	DPES31080	10.5	SCSI	$249	$299

Satsuma Family- (3 Year Warranty)

728MB	94G2646	12ms	IDE	$269	$319

Ultastar XP Family-(MR Head Technology/5 Yr Warr)

2.3GB	94G3192	7.5ms	7200RPM	$1030	$1100
4.5GB	94G3198	8ms	7200RPM	$1634	$1734
5.1GB	06H8431	8ms	Audio Video	$1585	$1685
5.3GB	94G3794	7.5ms	7200RPM	$1419	$1519

MICROPOLIS

9.1GB FAST SCSI-2

- **Model# MC1991**
- **5 YEAR WARRANTY**
- **10ms FAST, 5400RPM.**
- **3.5" x 1"**

$1999

External .. $2124

FAST SCSI-2 DRIVES

				INT	EXT
2.0GB	MC4221	8.5ms	3.5"x1"	$689	$759
4.0GB	MC3243	8.5ms	3.5"	$1017	$1087
9.1GB	MC1991	1.1ms	5.25"	$1990	$2124

Audio Video FAST SCSI-2

2.0GB	MC4221AV	8.5ms	1"	$758	$828
4.0GB	MC3243AV	8.5ms	3.5"	$1139	$1209
9.1GB	MC1991AV	11m	5.25"	$2198	$2323

HEWLETT PACKARD

2.17GB FAST SCSI-2

- **Model# C3725S**
- **5 YEAR WARRANTY**
- **9.5ms FAST, 5400RPM.**
- **512K Cache Buffer**
- **800,000 Hours MTBF**

$639

External .. $709

ENHANCED IDE DRIVES

1.08GB	C5270A	12ms	3.5"x1"	$266
1.6GB	C5271A	12ms	3.5"x1"	$329

FAST SCSI-2 DRIVES

				INT	EXT
1.2GB	C3724S	9.5ms	3.5"x1"	$319	$369
2.17GB	C3725S	9.5ms	3.5"x1"	$639	$709

Seagate

4.3GB FAST SCSI-2

- **Model# ST15230N**
- **5 YEAR WARRANTY**
- **9ms FAST, 5411 RPM.**
- **512K Cache Buffer**
- **800,000 Hours MTBF**

$962

External .. $1032

Enhanced IDE DRIVES

850MB	ST5850A	12ms	Fast ATA-2	$199
1.08GB	ST51080A	12ms	Fast ATA-2	$223
1.63GB	ST31640A	NEW	Fast ATA-2	$359
2.14GB	ST32140A	NEW	Fast ATA-2	$398

FAST SCSI-2 DRIVES

Hawk Series-(5411RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	ST31231N	9ms	3.5"x1"	$379	$429
2.1GB	ST32430N	9ms	3.5"x1"	$639	$709
4.3GB	ST15230N	9ms	3.5"	$962	$1032

Barracuda Series-(7200RPM/8ms Avg Seek/5 Yr Warr)

2.1GB	ST32550N	512K Cache	3.5"x1"	$758	$828
4.3GB	ST15150N	1MB Cache	3.5"	$1214	$1314

Elite Series-(5,400RPM/1MB Cache/5 Yr Warranty)

9.0GB	ST410800N	11ms	5.25"	$2139	$2264

CONNER®

850MB E-IDE

- **Model# CFS850A**
- **5 YEAR WARRANTY**
- **<15ms 5400 RPM.**
- **3.5" x 1"**

$188

External .. $659

Enhanced IDE DRIVES

FileProSeries-(3,600RPM/64K Cache/1-3 Yr Warranty)

540MB	CFS541A	<15ms	3.5"x1"	$167
1.27GB	CFS1275A	<15ms	3.5"x1"	$232

FilePro Advantage Series-(4,500RPM/256K Cache/ up to16.7MB/s Data Trans Rate / 1-3 Yr Warranty)

850MB	CFA850A	<12ms	3.5"x1"	$188
1.27GB	CFA1275A	<12ms	3.5"x1"	$262

FAST SCSI-2 DRIVES

FilePro Series-(5,400RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	CFP1060S	9ms	3.5"x1"	$266	$316

FilePro Performance-(512K Cache/5 Yr Warr)

1.0GB	CFP1080S	11ms	5400RPM	$266	$313
2.1GB	CFP2105S	8.5ms	5400RPM	$583	$653
2.1GB	CFP2107S	8.5ms	7200RPM	$679	$749
4.2GB	CFP4207S	9ms	7200RPM	$925	$995

Maxtor

1.6GB ENHANCED IDE

- **Model# 71626AP**
- **2 YEAR WARRANTY**
- **<12ms FAST, 4500 RPM.**
- **128K Cache Buffer**
- **300,000 Hours MTBF**

$272

Enhanced IDE DRIVES

540MB	7541AV	12ms	3.5"x1"	$177
850MB	7850AV	12ms	3.5"x1"	$194
1.2GB	71260A	<12ms	3.5"x1"	$269
1.6GB	71626A	<12ms	3.5"x1"	$272

Audio Video

ENHANCED IDE

WESTERN

Enhanced IDE DRIVES

635MB	AC2635	*NEW*	3.5"x1"	$179
850MB	AC2850	<10ms	3.5"x1"	$194
1.0GB	AC21000	*NEW*	3.5"x1"	$219
1.28GB	AC31200	<10ms	3.5"x1"	$272
1.6GB	AC31600	<10ms	*NEW*	$319

ENHANCED IDE

FUJITSU

Enhanced IDE DRIVES

M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

540MB	M1603TAU	10ms	PIO 4	$168
1.08GB	M1606TAU	10ms	PIO 4	$227

FAST SCSI-2 DRIVES

M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

				INT	EXT
540MB	M1603SAU	10ms	3.5"x1"	$182	$232
1.08GB	M1606SAU	10ms	3.5"x1"	$242	$292

Allegro Series-(7,200RPM/512K Cache/MR Head Tech)

2.17GB	M2915SA	9ms	3.5"x1"	$639	$709
4.3GB	M2934SA	10ms	3.5"x1"	$939	$1009

FAST WIDE

Seagate

				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$522	$702
2.1GB	ST32430W	9ms	3.5"x1"	$768	$948
2.1GB	ST32550W	8ms	3.5"x1"	$875	$1055
4.3GB	ST15230W	9ms	3.5"	$1059	$1239
4.3GB	ST15150W	8ms	3.5"	$1299	$1479
9.0GB	ST410800W	11ms	5.25"	$2289	$2414

FAST WIDE DIFFERENTIAL

4.3GB	ST15150WD	8ms	3.5"	$1399	$1649
9.0GB	ST410800WD	11ms	5.25"	$2519	$2819

Quantum

2.1GB	XP32150W	8ms	3.5"x1"	$859	$1039
2.2GB	VP32210W	8.5ms	3.5"x1"	$699	$879
4.3GB	GP34301W	8.6ms	3.5"	$1069	$1249
4.3GB	XP34300W	8ms	3.5"	$1186	$1366

MICROPOLIS

2.0GB	MC4221W	8.5ms	3.5"x1"	$799	$979
4.0GB	MC3243W	8.5ms	3.5"	$1225	$1405
9.1GB	MC1991W	11ms	5.25"	$2289	$2539

Audio Video FAST WIDE

2.0GB	MC4221WAV	8.5ms	3.5"x1"	$929	$1109
4.0GB	MC3243WAV	8.5ms	3.5"	$1279	$1459
9.1GB	MC1991WAV	11ms	5.25"	$2451	$2701

FAST WIDE DIFFERENTIAL

2.0GB	MC4221WD	8.5ms	3.5"x1"	$799	$979
4.0GB	MC3243WD	8.5ms	3.5"	$1225	$1405

CONNER®

1.0GB	CFP1060W	9ms	3.5"x1"	$555	$735
2.1GB	CFP2105W	8.5ms	5400RPM	$726	$906
2.1GB	CFP2107W	8.5ms	7200RPM	$762	$942
4.2GB	CFP4207W	9ms	7200RPM	$1210	$1390

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STORAGE SOLUTIONS

2.5" NOTEBOOK DRIVES

TOSHIBA

Up to 16.6MB/s Trans Rate

2.5" Series - (4,200RPM/128K Cache/1 Yr Warranty)

540MB	MK1924FCV	13ms	12.7mm	$315
810MB	MK1926FCV	13ms	12.7mm	$445
1.3GB	MK2720FC	NEW	19mm	$574

Quantum

Daytona Series (4,500RPM/128K Cache/1 Yr Warr)

341MB	DY341AT	17ms	IDE	$Call
514MB	DY514AT	17ms	IDE	$Call
341MB	DY341S	17ms	SCSI	$169
514MB	DY514S	17ms	SCSI	$299

Europa Series (4,500RPM/128K Cache/1 Yr Warr)

540MB	20540EUA	17ms	IDE	$270
810MB	20810EUA	17ms	IDE	$295
1.08GB	21080EUA	17ms	IDE	$499

Seagate

262MB	ST9300AG	16ms	IDE	19mm	$270
420MB	ST9420AG	16ms	IDE	19mm	$295
455MB	ST9550AG	16ms	IDE	19mm	$385
524MB	ST9655AG	16ms	IDE	19mm	$314
810MB	ST9816AG	16ms	IDE	19mm	$468

REMOVABLE DRIVES

SyQuest

135MB	EZ135P	3.5"PC	Ext Parallel	$219
200MB	SQ5200C	5.25"	SCSI	$349
200MB	SQ5200CE	5.25"	SCSIExt w/cart	$479
200MB	SQ5200CEM	5.25"	SCSIExt for Mac	$589
270MB	SQ3270A	3.5"	IDE	$Call
270MB	SQ3270S	3.5"	SCSI	$329
270MB	SQ3270SE	3.5"	SCSIExt w/cart	$430
270MB	SQ3270SEM	3.5"	SCSIExt for Mac	$444
270MB	SQ3270SEP	3.5"	PC Ext Parallel	$552
200MB	SQ Cartridge	5.25"		$74.95
88MB	SQ Cartridge	5.25"		$52.95

IOMEGA

100MB ZIP DRIVE SCSI or Parallel	$199
100MB ZIP Cartridge	$22.95
1.0GB JAZ DRIVE Ext. SCSI	$599
1.0GB JAZ DRIVE Int. SCSI	$499
1.0GB JAZ Cartridge	$99

FLOPPY DRIVES

TEAC

FD-55	5.25"	1.2MB	$44
FD-235	3.5"	1.44MB	$32
FD-235B	3.5"	1.44MB	$36
FD-505	COMBO1.2/1.44		$92

OPTICALS

NEW Maxoptix

1.3 Rewritable Optical Drives

		INT/EXT
Tahiti-4M	1MB Cache buffer (HH)	$1699/1749
Tahiti-4M	4MB Cache buffer	$CALL
Tahiti-3M	1MB Cache buffer	$1789/$1889
Tahiti-3M	4MB Cache buffer	$1966/$2066
1.3GB Cart (512 or 1024b Sector) Glass/Poly		$124/$67
2.6GB Cart (512 or 1024b Sector) Poly		$89

HEWLETT PACKARD

Rewritable Optical Drives

		INT/EXT
C1716T	1.3GB 5.25" INT/EXT	$1939/$1985
C2550A	1.3GB 5.25" External	$2233
C1100A	20GB Ext Juke Box (20XT)	$4589
1.3GB(1024b/s) or 1.2GB(512b/s) cartridge		$79

PINNACLE MICRO

THE OPTICAL STORAGE COMPANY

APEX 4.6GB

4.6GB Optical Storage System

4.6 MAC	External 4.6GB for MAC	$1569
4.6 PC	External w/Adaptec SCSI Interface	$1549
4.6 PCi	Internal w/Adaptec SCSI Interface	$1540
4.6 GB	Cartridge	$186

SIERRA 1.3GB

1.3GB Optical Hard Drive Storage System

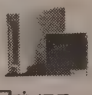
1.3 MAC	External 1.3GB for MAC	$1665
1.3 PC	External w/Adaptec Interface	$1739
1.3 PCAN	External for PC (no Interface)	$1659
1.3 PCi	Internal w/Adaptec Interface	$1729

TAHOE 230MB

The Next Generation of the First Portable Optical Drive

230 MAC	Portable 230MB for MAC	$619
230 PCT	Portable for PC (Parallel)	$784
230 PCA	Portable w/Adaptec Interface	$728
230 PCAN	Portable for PC (no Interface)	$616
Pak-Travel	Battery,charger & travel case	$120

FUJITSU



DynaMO M2512 230MB 3.5" Drives

2512A/2512B Internal 230MB Unit	$408/$524
External with 230MB Cart for PC	$569
EXTERNAL w/16 Bit Adapter & Cart for PC	$684
EXTERNAL w/Software,Cable & Cart for MAC	$578

IBM

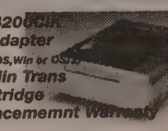
230MB & 1.3GB Rewritable Opticals

230MB Internal/(External with cart)	$516/$675
1.3GB Internal 5.25" Removable MO	$1599
1.3GB External 5.25" Removable MO	$1918

TAPE BACKUPS

EXABYTE®

4.0GB 4mm DAT Internal Kit



- ◆ ***Model# EXB-4200CIK***
- ◆ ***16 Bit SCSI Adapter***
- ◆ ***Backup SW** (DOS,Win or OS/2)*
- ◆ ***up to 28MB/Min Trans***
- ◆ ***One Data Cartridge***
- ◆ ***48 Hour Replacememnt Warranty***

$879

External .. $949

		INT / EXT
2501	1GB 567 KB/sec	$449/$499
2501K	Complete Kit for PC	$559/$609
4200	2GB up to28MB/min w/Comp	$775/$825
4200C	4GB up to28MB/min w/Comp	$777/$827
8205XL	3.5-7GB up to 32MB/min w/Comp	$1218/$1299
8505XL	7-14GB up to 60MB/min w/Comp	$1827/$1899
EXB-BKT	Exabyte 5.25" Bracket for 3.5"Units	$25

HEWLETT PACKARD

The Most Reliable Tape Backup for Your Valuable Data

4mm DAT Series...

	INT / EXT
C1534A2.0GB 3.5" 183kb/sec DDS	$659/$729
C1536A4-8GB 3.5" ** **NEW** **	$772/$842
C1533A4-8GB HW Data Comp DDS-2	$1019/$1089
C1553A24-48GB 6-Cart Autoloader cap.	$2039/$2139
HP-BKT C90101 5.25" Bracket for 3.5" DAT Units	$29
HP-BKT C90100 5.25" Bracket for 3.5" DAT Units	$25

CONNER

Archive Viper 1/4" Series...

			INT	EXT
2150S	250MB	112KB/sec	$310	$360
2525S	525MB	200KB/sec	$422	$472

Python 4mm DAT Series...

4320NT	2GB up to 11MB/min - INT/EXT	$765/$815
4324NP	4GB Turbo-22MB/min 1MB Cache-INT	$799
4326NP	4-8GB 5MB/sec 1MB Cache -INT	$899
4584NP	Int 16GB (Auto Loader DAT)	$2168

CONNER TAPE·STOR™

Mini Data Cartridge Series

TS420	420MB Runs Off Floppy Port	$147
TS420P	420MB Runs Off Parallel Port	$289
TS800	800MB (QIC WIDE) TRAVAN	$163
TS800P	800MB TRAVAN Parallel Port	$297
TS850	850MB (QIC WIDE) Floppy Port	$198
TS850P	850MB (QIC WIDE) Parallel Port	$334
TS1700	1.7GB (QIC WIDE)-w/Floppy Cont	$232
TS3200	3.2GB TRAVAN3-w/Floppy Cont	$289
TS4000A	4.0GB (QIC WIDE)-IDE w/Card	$423
TS4000	4.0GB (QIC WIDE)-SCSI	$477
TS4000E	4.0GB (QIC WIDE)-SCSI External	$539
MS4000	4.0GB (QIC-WIDE)-SCSI for File Server	$549

COLORADO™ MEMORY SYSTEMS INC.

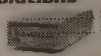
Mini Data Cartridge Series (Floppy Based)

DJ35	350MB (JUMBO 350)	$116
DJ25	680MB (JUMBO 700)	$197
T1000	800MB HP Colorado TRAVAN	$174
DJ50	1.4GB (JUMBO 1400) *NEW*	$248

POWERTAPE ***High Performance SCSI Series***

				INT	EXT
PT10	1.0GB	SCSI-2	1/4"	$619	$699
PT25	2.0GB	SCSI-2	1/4"	$945	$1089
PT50	4.0GB	SCSI-2	1/4"	$1139	$1199
PD60	2-4GB	SCSI-2	DAT	$994	$1089

Trakker ***Parallel Port Backup solutions***



JT35	350MB	TRAKKER (350)	$260
JT25	680MB	TRAKKER (700)	$315

novastor CORPORATION

High END SCSI Backup Software solutions

NBDOS	SINGLE USER FOR DOS	$55
NBWIN	SINGLE USER FOR WINDOWS	$59
NBWIN95	SINGLE USER FOR WINDOWS 95	$69
NBOS/2	SINGLE USER FOR OS/2 (Warp Support)	$69
NBNET50	NLM 50 USER (DOS)	$325
NBNETU	NLM UNLIMITED USERS (DOS)	$399
NBMAC	Nova MAC for Macintosh	$65

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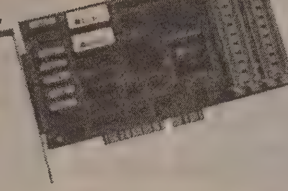
CONTROLLERS

IDE

BUSLOGIC

Buslogic IDE Cache Controller



KT-910AC
- Pci Bus-to-Cache Data Transfer up to 20MB/sec.
- AutoIDE™ utility for easy installation
- Cache expandability from 512KB to 16MB
- Supports up to 4 IDE disk drives
- 30 pin SIMMs
- Disk mirroring for 100% disk fault tolerance
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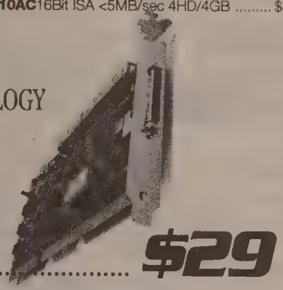

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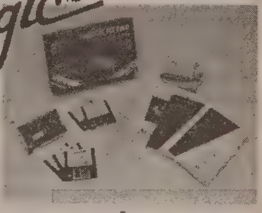

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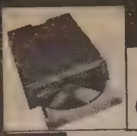

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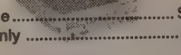

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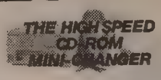

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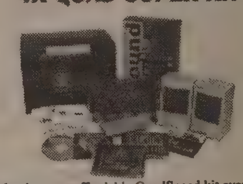

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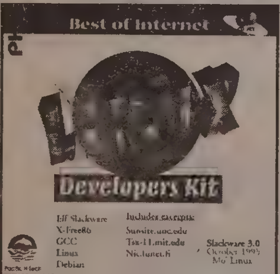
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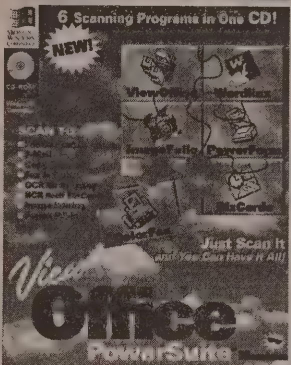
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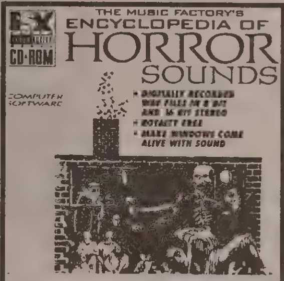
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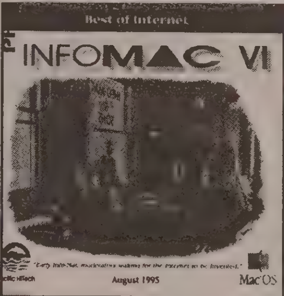
Best of Internet
INFOMAC VI
August 1995
MacOS

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Business Solutions for Mac-MAC	$16.95
Knowledge Explorer-MAC	$16.95
Ultra Mac Utilities-MAC	$23.95

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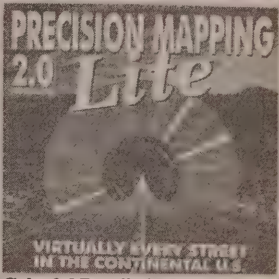
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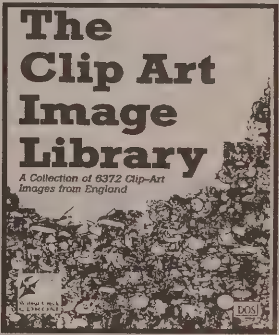
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NOTEBOOK COMPUTERS

IBM

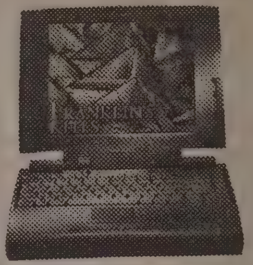
ThinkPad 701C Notebook

- 486DX2-50MHz. Processor
- 4MB RAM exp. to 24MB
- 540MB HD
- TFT Color Display
- Multimedia Ready
- 1MB Video RAM
- External FDD

$2199

NEC

Versa 2000C Notebook

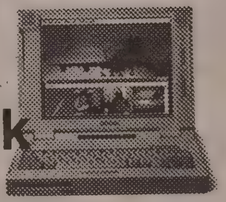


- 486DX4-75MHz. Processor
- 8MB RAM exp. to 40MB
- 540MB Hard Drive
- 9.5" TFT Color Display
- Glide Point pointing device
- Loads of Free Software

$2599

COMPAQ

LTE 5100 Pentium Notebook



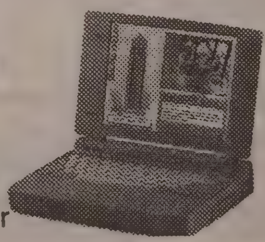
- Intel Pentium 90MHz. Processor
- 8MB RAM exp. to 72MB
- 810MB Hard Drive
- TFT Active Color Display
- Easy Point II Integrated Devices
- Windows 95 Pre-installed
- 3 Year Limited Warranty

Optional CD-ROM Upgrade (NQ213508)............. $399

$5099

TOSHIBA

Satellite Pro 400CS



- Intel Pentium 75MHz. Processor
- 8MB RAM exp. to 40MB
- 722MB Hard Drive
- DSTN Color Display
- Multimedia Ready

$2899

Portege 610CT

- Intel Pentium 90MHz. Processor
- 8MB RAM exp. to 40MB
- 720MB Hard Drive
- TFT Active Color Display

$3899

EPSON

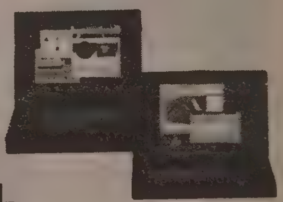
ActionNote 895CX Color Notebook

- 486DX4-100MHz. Processor
- 8MB RAM exp. to 24MB
- 540MB Hard Drive
- 10.4" Active Color Display
- Integrated Stereo Audio
- Integrated 14.4 Fax/Modem
- $100 Value Software Package
- 1 Year Warranty

$2599

HEWLETT PACKARD

OmniBook 600CT Color Notebook



- Intel DX4-75MHz. Processor
- 8MB RAM exp. to 16MB
- 340MB Hard Drive
- TFT Active Color Display
- 3 Year Warranty

$2995

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PRINTERS AND SCANNERS

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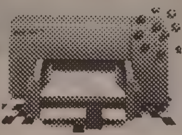


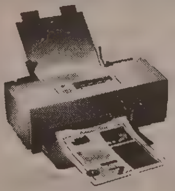
DeskJet 855C Color Ink Jet

- Up to 7ppm (B/W)
- Up to 3ppm (Color)
- Dual I/O for PC or Mac
- 26 Scalable Fonts

$499

DeskJet 600C/660C Color Ink Jet	$289/$369
DeskJet 1600C/1600CM	$1399/$1989
LaserJet 4V/4MV	$1899/$2699
LaserJet 4+/4M+	$1399/$1869
LaserJet 5L	$479
LaserJet 5P/5MP	$829/$969
LaserJet 5si/5siMX	$2799/$3699

EPSON



Stylus II Color Printer

- 4 Color (CMYK) Drop-on-Demand Piezoelectric
- 720 x 720 dpi
- 60 Nozzle Color Head
- Up to 4ppm test Printing
- 2 Year Limited Warranty

$449

Stylus IIs (PEI600I)	$289
Stylus Pro Optional Postscript (PEI6400I)	$799

XANTÉ

Innovations In Output

Accel-a-Writer 8200 Laser Printer

- 600dpi Standard
- 1200dpi Maximum
- 720 x 720 dpi
- 12MB RAM Upgradable to 64MB
- 16ppm
- Maximun Print area 11.75"x 24.9"
- Adobe Postscript Level 2

$5165

- Standard interface simultaniously active: LocalTalk, Centronics, Parallel, RS 232 Serial, SCSI Disk. Ethernet Optional.

Accel-a-Writer 812	1200dpi A4 Print Size	$Call
PlateMaker 8200	1200dpi 11x17 Print Size	$Call
LaserPress 1200	1200dpi 11x17 Print Size	$Call
LaserPress 1800	1800dpi 11x17 Print Size	$Call

Canon

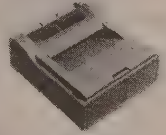
BJC-4100 Color Bubble Jet Printer

- Make Greeting Cards, T-shirts, , Stickers, and More witb Canon Creative CD-ROM including Hallmark Connections™ Everyday Greetings™ and Crayola Art
- Office Quality Color and Black & White
- Printing at 720 x 360 dpi
- Free 2 Year Instant Exchange Warranty and 15 hour Toll-free Support

$379

BJC-210	4ppm, 720 x 360 dpi	$269
BJC-610	3ppm, 720 x 720 dpi	$549

OKIDATA



OL-400e Laser Printer

- 4ppm Printing Speed
- 300 dpi class
- 512K RAM exp. to 4.5MB
- 44 bitmap Fonts
- 5 Year Printhead Warranty

$349

OKIDATA

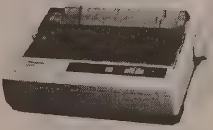
OL-600e Laser Printer

- 6ppm Printing Speed
- 600 dpi class
- 1MB RAM exp. to 16MB
- 44 bitmap Fonts
- 5 Year Printhead Warranty

$399

Panasonic

Panasonic Dot Matrix Printer Sale



- 24-pin Letter Quality
- 2 Year Limited Warranty
- 2nd Inventory Printer

KX-P2023	$139
KX-P2123	$149
KX-P2130	$159
KX-P3626	$289

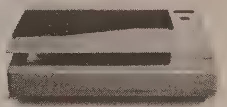
HEWLETT PACKARD

ScanJet 4C Flatbed Color Scanner

- 600dpi Color/Grayscale
- Up to 2400dpi Scans
- 30 bit Color/Greyscale
- Corel Photo Paint Software for Windows
- Adobe PhotoShop Software for Mac
- Visioneer Paper Port Software

$899

ARTEC

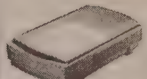


View Station True Color Flatbed Color Scanner

- Model A600C
- SCSI-2 for Mac or PC
- 2400x2400dpi
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

$325

UMAX



2400 dpi UC1260 Flatbed Color Scanner

- Model PCLE2
- SCSI-2 for Mac or PC
- 2400x2400dpi
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

$766

RELISYS

2400 dpi Scorpio Flatbed Color Scanner

- SCSI-2 for Mac or PC
- 2400x2400dpi
- Single Pass Scanning
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

$449

9600 dpi Taurus Flatbed Color Scanner

- SCSI-2 for Mac or PC
- 9600x9600dpi
- Single Pass Scanning
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

$749

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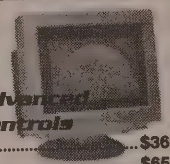
MONITORS & VIDEO CARDS

MONITORS

MAG INNOVISION

GREEN ENERGY



High Resolution Monitors with Advanced Microprocessor based Digital Controls

DX15E	15"	1280x1024	.28	up to 100Hz	**$369**
DX17F	17"	1280x1024	.26	up to 100Hz	**$659**
MXP17F	17"	1600x1200	.26	up to 120Hz Flat	**$834**
MXP21F	21"	1600x1200	.28	up to 120Hz Flat	**$1679**

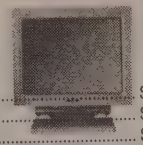
NANAO®

Ultra High Resolution Intelligent Color Monitors

F2-15	15"	1280x1024	.28	up to 120Hz	$540
F2-17	17"	1280x1024	.28	up to 120Hz	$866
T2-17	17"	1600x1200	.25	Trinitron tube	$1297
F2-17EX	17"	1600x1200	.26	up to 160Hz	$979
T2-17TS	17"	1600x1200	.25	up to 160Hz	$1029
T2-20	20"	1280x1024	.31	Trinitron tube	$1977

HITACHI®

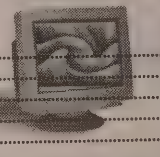
Hitachi America,Ltd.



SuperScan SVGA Non-Interlaced Monitors

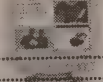
CM1587	15"		.28	Dig Ctrls	$369
CM1711	*Elite17*-17"	1600x1200	.26	Dig Ctrls	$861
CM1786	17"	1280x1024	.28		$658
CM2011	20"	1600x1200	.28	Dig Ctrls	$1323
CM2110	21"	1600x1280	.26		$1784
CM2111	21"	1600x1200	.26	@75Hz	$1925
CM2112	21"	1600x1200	.26	@85Hz	$2397

SONY



CPD-1425	14" SVGA , .25dpi 1024x768@60Hz	$299
GPD-15SF1	15" SVGA , .25dpi 1280x1024	$459
GPD-15SF2	15" SVGA , .25dpi 1280x1024	$470
GPD-17sf	17" SVGA , .25dpi 1280x1024	$853
GDM-17sf2	17" SVGA , .25dpi 1280x1024	$CALL
CPD-20SE	20" 1600x1200 @60Hz .30 dpi	$1917

SAMSUNG

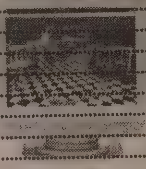


High Performance SyncMaster™ SyncMonitors

CMA5377L	Sync-15GL	15"	.28 1280x1024	$388
CMH7379L	Sync-17GLS	17"	.26 1600x1200	$847

NEC

SEE, HEAR AND FEEL THE DIFFERENCE.™



XV-14	14"	1024x768 .28dpi	$310
XV-15	15"	1280x1024 .28dpi PC & MAC	$456
XE15	15"	1024x768 .28dpi	$566
XP17	17"	1280x1024 .28dpi Opticlear	$1033
XV17	17"	1280x1024 .28dpi up to 100Hz	$755
XE17	17"	1024x768 .28dpi	$997
XE21	21"	1280x1024 .28dpi flat screen	$1786
XP21	21"	1600x1200 .28dpi Opticlear	$2159

NOKIA MONITORS

NEW! 447L Color Monitors-Charcoal/Blue/Red/Grn/Gray with Two Stereo Powered Speakers Built In !

447L	17"	1024x768	.28 @75Hz Refresh	$669
449E	15"	1024x768	.28 @80Hz Refresh	$437
447X	17"	1600x1200	.25 110Hz Refresh	$920
447W	17"	1280x1024	.26 @79Hz w/Spkrs	$808
445X059	21"	1600x1200	120Hz Refresh	$1879
445X058	21"	1600x1200	120Hz RefreshTCO	$1992

SPECIAL MONITOR CABLES

VGA EXTENSION CABLE 6ft	$5
15 PIN to 5 BNC MONITOR CABLE	$29

ViewSonic®

See The Difference!™

VS-14ES	14"	.28	1024x768 NI	$358
VS-15G	15"	.28	1280x1024	$417
VS-15GS	15"	.27	1280x1024 w/OVC	$439
VS-17GS	17"	.27	1280x1024 w/OVC -TCO	$699
VS-17GA	17"	.27	1280x1024 (OVC),w/built in speakers, Mic & Headphone Jacks-TCO	$823
VS-20PS	20"	.28	1600x1200, w/OVC-VM	$1417
VS-20G	20"	.28	1600x1200, Dig Ctrl-VM	$1249
VS-21PS	21"	.25	1600x1200, w/OVC-VM	$1668

VIDEO CARDS

NUMBER NINE

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The Most Powerful Graphics Accelerator Based on the First 128-bit Graphics Engine!

•128-bit IMAGINE 128 Graphics Accelerator

#9-Imagine1600	PCI 4MB VRAM	$399
#9-Imagine128	PCI 4/8MB VRAM	$819/1282

•Number Nine FX Series

#9-FX Vision330	PCI or VLB 1/2MB	$127/$171
#9-FX Vision530	PCI or VLB 1/2MB	$171/$211
#9-FX Motion771	PCI or VLB 2/4MB	$291/$427

matrox

NEW ** Millennium Series

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MGA-MIL/4 PCI	4MB VRAM	$458
MGA-MIL/MOD 2	2MB to 4MB Upgrade Module	$180
MGA-MIL/MOD 4	4MB to 8MB Upgrade Module	$352
MGA-MIL/MOD 6	2MB to 8MB Upgrade Module	$500

DIAMOND MULTIMEDIA

•Stealth 64 Video Series (64 Bit)

DRAM	VLB or PCI	1/2MB	$165/$220
VRAM	VLB or PCI	2/4MB	$332/$477

•Stealth 64 Video 3200 Series (64 Bit)

VRAM	VLB or PCI	2MB (non-upgradable)	$268

•Stealth 64 Graphix

DRAM	PCI or VLB	1MB/2MB	$141/$195

ATi

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Graphics ProTurbo 1600 (1600x1200) <100Hz PCI 4MB (VRAM)	$431
Graphics Pro Turbo 64 (1280x1024) <100Hz VLB, PCI/ISA 2MB/4MB (VRAM)	$308/$431
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Graphics Xpression,(1280x1024) <75Hz VLB, PCI or ISA 1MB/2MB (DRAM)	$139/$183

JAZZ MULTIMEDIA

Jacarta PCI or VLB Integrated MPEG Graphics Accelerator	$355
Port Of Entry MultiMedia Adaptor (Access TV, VCR, Nintendo, Laserdisc)	$129
Projector Output Video to your TV and VCR	$105
Jacarta/Port of Entry Bundle (PCI or VLB)	$489

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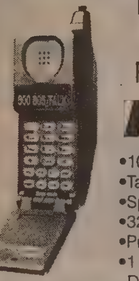

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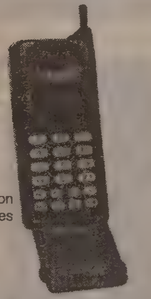

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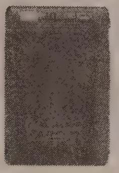

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- Time of Day
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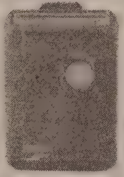

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- Silent Vibrations
- Single Button Operation
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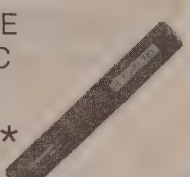

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- Time of Day

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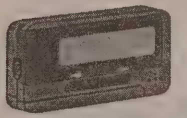

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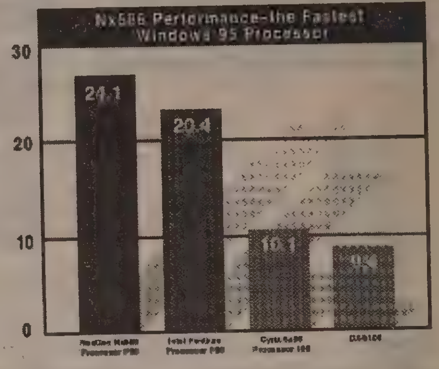
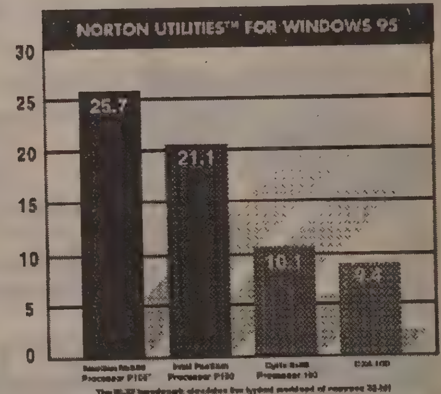


Norton Utilities Sysinfo 32 for Windows 95 simulates a typical workload of common 32-bit Windows applications, running under Windows 95.



The BL-32 benchmark simulates the typical workload of common 32-bit Windows applications while running under Windows 95.

Compatibility

"...the Nx586 processor is...able to handle any software the Pentium can run–PC World's tests turned up no software compatibility problems"
–PC World

"In terms of compatibility with DOS and Windows applications, we could find no problems"
–PC Magazine

Value

"The NexGen Nx586 chip is the first affordable alternative to Intel Corp's Pentium that does not involve sacrificing performance"
–PC Magazine

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–Windows Sources

"...you won't miss 'Intel Inside' or be missing a few extra hundred dollars from your bank account"
–Computer Shopper

KEY PROCESSOR TECHNOLOGIES

	Nx586 Processor	Pentium Pro Processor	Pentium Processor	DX/4
RISC -based Microarchitecture	Yes, RISC86	Yes	No	No
L1 Cache	32K	16K	16K	8K
L2 Cache Control inside CPU	Yes	Yes	No	No
L2 Cache Private Full-Speed Bus	Yes	Yes	No	No

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100/250 User	Call/Call

NETWARE 4.1 White Box

5/10 User	Call/Call
25/50 User	Call/Call
100/250 User	Call/Call

NETWARE 4.1 White Box

5/10 User	Call/Call
25/50 User	Call/Call
100/250 User	Call/Call

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intel.

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Resources

Calendar Of Events

Conferences, Shows, Special Events

February

February 8–9 The 4th Urban Industrial Forum. Tokyo, Japan. Cities of Arakawa, Itabashi, Kita, and Adachi. Contact: *http://www.iijnet.or.jp/forum* or *yonk95@ari.co.jp* .

February 13–14 The Online Advantage Conference. Bellevue, WA. Washington Software Association. Contact: (206)889-8880 or *http://www.wsa.com/wsa/events/ola96/* .

February 14–16 UniForum Show. San Francisco. SOFTBANK COMDEX, Inc. Contact: (617)449-6600.

February 17–18 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

February 18 MarketPro Computer Show. Sacramento. MarketPro. Contact: 1-800-708-7555.

February 19–21 Field And Sales Force Automation Conference. San Jose. DCI. Contact: (508)470-3880 or *ConfReg@dciexpo.com* or *http://www.DCIexpo.com/* .

February 20–21 NetworkWorld Unplugged Expo. San Jose. DCI. Contact: 1-800-324-3976 or *ExpoReg@dciexpo.com* or *http://www.DCIexpo.com/* .

February 20–21 PC Card '96 Exposition. San Jose. 3Com, Cirrus Logic, Epson, Motorola. Call: 1-800-767-2336.

February 23 Multimedia Pioneers Lecture: Howard Rheingold. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

February 24–25 MarketPro Computer Show. Vallejo. MarketPro. Contact: 1-800-708-7555.

February 25–28 IEEE COMPCON 96: Technologies For The Information Superhighway Conference. Santa Clara. Institute for Electronics and Electrical Engineers. Contact: Dave Hunt, *hunt-dn@llnl.gov* or *http://www.cse.ucsc.edu/~lisa/compcon96.html* .

FEBRUARY 29—MARCH 3

The Media And Democracy Congress

MIYAKO HOTEL, SAN FRANCISCO

The goals of the Media and Democracy Congress include strengthening independent and public interest journalism and developing models for its economic viability; protecting the right to freedom of expression and responding to attempts to limit it; developing new models of collaboration among radio, TV, print, and online media; facilitating communication between activists and journalists; understanding and responding to the threat from the far right; and grappling with new technology and its impact on how we use information. These goals will be accomplished through plenary sessions, panel discussions, training sessions, and affinity groups. The fee is $175. For more information contact the Institute for Alternative Journalism, (415)284-1420 or http://www.alternet.org/an/Congress.html .

Computer Art Classes At Kala Institute

Kala Institute in Berkeley is offering a range of computer classes geared toward artists. Topics range from Introduction to Macintosh and Basic Word Processing on Macintosh to classes such as Photoshop, PageMaker, Painter, Illustrator, and From Photoshop to Photo-Etching. In addition, Kala offers a full array of traditional media art classes in printmaking techniques, book arts, and paper making. For more information, call (510)549-2977.

BEGINNING FEBRUARY 24

From Soup To Nuts Without Going Bananas

CENTER FOR SOFTWARE DEVELOPMENT, SAN JOSE

From Soup to Nuts Without Going Bananas is a comprehensive series of Saturday morning seminars for technology entrepreneurs and managers of emerging growth and more mature private companies. Finance, marketing, business development, and legal experts will discuss the critical issues all managers must address in high-growth, high-tech companies. The seminars are $49 each for members or $99 each for nonmembers. For more information, call (415)854-7219.

February 27–28 Competitive Telecom Strategies for Electric Utilities Conference. Atlanta. World Research Group. Contact: (212)421-9410 ext. 38 or *wrg@aol.com* .

February 29–March 3 The Media And Democracy Congress. San Francisco. Institute for Alternative Journalism. Contact: (415)284-1414

March

March 2 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

March 2–3 MarketPro Computer Show. Sacramento. MarketPro. Contact: 1-800-708-7555.

March 3 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

March 4–6 Inside EDI Conference. San Francisco. MultiCorp. Contact: (214)424-1508 or *inside.edi@multicorp.com* or *http://www.multicorp.com/inside.edi* .

March 4–6 QuarkXPress Conference. San Francisco. Thunder Lizard Productions. Contact: 1-800-221-3806.

March 5–7 intermediaWORLD '96 Conference. San Francisco. Reed Exhibition Companies. Contact: (203)840-5634.

March 8–9 California Genealogical Society's Family History Fair. San Francisco. California Genealogical Society. Contact: (415)777-9936.

March 9 MarketPro Computer Show. Santa Rosa. MarketPro. Contact: 1-800-708-7555.

March 9–10 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

March 9–12 South By Southwest Multimedia Festival. Austin, TX. SXSW Multimedia. Contact: (512)467-7979 or *72662.2465@compuserve.com* or *http://sxsw.com/sxsw* .

March 11 Multimedia Now: Publisher Strategies For Competing And Winning Conference. New York. *PublishersWeekly, Book Publishing Report, Multimedia Business Report.* Contact: (203)834-0033 ext. 124 or *simbainfo@simbanet.com* .

March 18–22 Printed Circuit Board Design

Robert Austin Computer Shows

FREE ADMISSION!!

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February 17 & 18, 1996...Sat & Sun
March 9 & 10, 1996........Sat & Sun

Oakland Convention Center

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New Date

February 3, 1996...Sat
March 2, 1996.......Sat

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- ✓ **Fun and Entertainment For The Whole Family**

Show hours 10 am to 4 pm

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Computer Show Information Hotlines
For Show Dates and Locations 24 Hours a Day

Telephone:
1-800-243-7041
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http://www.robertaustin.com

Calendar Of Events *continued...*

Conference. Santa Clara. Miller Freeman, Inc. Contact: Yolanda White-King, (415)905-4994.

March 19–23 Technology And Persons With Disabilities Conference. Los Angeles. CSU Northridge. Contact: Dr. Harry J. Murphy, (818)885-2578 or *ltm@csun.edu* .

March 21–23 10th Annual American Bar Association TECHSHOW. Chicago. American Bar Association. Contact: (312)988-5619 or *lpm@attmail.com* .

March 25–27 Internet And Electronic Commerce Conference And Expo. New York. Expocon. Contact: (203)256-4700 ext. 100 or *iec@expocon.com* or *http://www.expocon.com* .

March 25–29 Software Development '96 Conference And Exhibition. San Francisco. Software Development. Contact: (214)245-8874.

March 29 Multimedia Pioneers Lecture: Eric McLuhan. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

April

April 2–6 PC-Vietnam International Computing Trade Expo. Hanoi, Vietnam. Expo Corporation. Contact: Alexander Glos, (407)851-7222 or *74204.2576@compuserve.com* .

April 6 Computer Marketplace. Livestock Events Center, Reno. National Productions. Contact: 1-800-800-5600.

April 6 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

April 7 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

April 11–12 Oak Ridge Conference: New And Advanced Technology For The Clinical Laboratory. San Jose. American Association for Clinical Chemistry. Contact: 1-800-892-1400.

April 13–14 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

April 15–19 DB/Expo '96 Conference And Expo. San Francisco. Blenheim. Contact: 1-800-2DB-EXPO.

April 22–23 PAAM96—The First International Conference And Exhibition On The Practical Application Of Intelligent Agents And Multi-Agent Technology. London, UK. Contact: Al Roth, 011 44 1253 358081, *agents@pap.com*, *http://www.demon.co.uk/ar/PAAM96/index.html* .

April 29–May 3 PCI Spring Developers' Conference And Expo. San Jose. Annabooks Conferences. Contact: 1-800-462-1042 or *cgstockton@aol.com* .

April 30–May 1 Infosec '96 Exhibition And Conference For Network Security Solutions. London. Network Security. Contact: 011 44 (0)181 910 7821 or *a.verhoeven@elsevier.co.uk* .

May

May 3 Multimedia Pioneers Lecture: Mark Pesce. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

May 4–5 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

May 5 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

May 11 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

May 21–24 GlobalSoft Expo '96. Seattle. GlobalSoft Expo. Contact: Steve Hatch, (206)624-9743 or *rshatch@globalsoftexpo.com* .

May 25–26 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

Classes, Seminars, Workshops

February

February 5 Desktop Design Studio II Class. Pleasant Hill. UC Berkeley Extension. Contact: (415)252-5224.

February 5 How To Design Attention-Grabbing Brochures, Catalogs, Ads, Newsletters, And Reports Seminar. San Francisco. SkillPath Seminars. Contact: 1-800-873-7545.

February 5 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 5 Macintosh Basics For Multimedia II Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 5 PC Basics For Multimedia II Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 5 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 5 Strategic Planning For Information Resources Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 5 The Internet: How To Understand, Access, And Use The Internet Seminar. Corte Madera. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 5–6 AutoCAD R12 Update Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 5–7 Hands-On NetWare 4.x Advanced Administration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 5–7 Workshop On Network Security, Firewalls, And Internet Services. San Jose. Information Works! Inc. Contact: Cynthia Deno, (408)335-9445.

February 5–8 AutoCAD Level 1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 5–8 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 5–9 Oracle7 For Database Administrators Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 5–9 Sybase System 10: A Comprehensive Hands-On Introduction Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 5–April 15 Empowering The Audience: Basics Of Multimedia Interaction Design Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 6 Digital Money: The New Era Of Internet Commerce Free Presentation. San Jose. Computer Literacy Bookshop. Contact: (408)435-1118 or *http://www.clbooks.com/* .

February 6 Intro To MS-DOS 5.0/6.2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 6 Intro To Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 6 Networking Windows 95 Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 6 The Internet: How To Understand, Access, And Use The Internet Seminar. San Francisco. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 6 Using The Internet Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

February 6–9 Distributing Data In Client/Serv-

RAVE REVIEWS! GREAT PRODUCTS!

PC WORLD BEST BUY

"N5100 Media - Great price, Impressive performance, full multimedia." **PC WORLD, January 1996**

"Excellent price, outstanding Pentium-75 performance." **PC WORLD, October 1995**

"Strong performance and well-chosen components make this an attactive corporate PC." **PC MAGAZINE, October 1995**

NETIS PowerStation

- Intel Pentium® processor
- 256K cache
- 16MB memory
- 1.6GB IDE hard drive
- 1.44MB TEAC Floppy Drives
- 14.4 bps internal fax modem
- Diamond Graphics w/2MB Vram
- 15" Non-interlaced .28mm SVGA
- 2 Serial (high speed), 1 parallel port
- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 101 Keyboard
- Middle tower with Power Supply
- **MS Windows 95**

75MHz $1,798

100MHz $1,915

120MHz $1,989

133MHz $2,160

Multi-Media Systems

- 486 processor with ZIF socket
- 8MB Memory
- 256KB cache
- PCI/ISA slots
- 635MB hard drive
- PCI Graphics with 1MB
- 1.44MB TEAC Floppy Drive
- Quad speed CD-ROM
- 14" non-interlaced SVGA Monitor
- 2 Serial/1 Parallel/1 Game Port
- 16-bit sound card and speakers
- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 101 Keyboard
- Mini tower with Power Supply

486-100MHz $1,089

5x86-100MHz $1,110

5x86-133MHz $1,130

Networks

NetWare 3.12 5 user	$620
NetWare 3.12 10 user	$1,413
NetWare 3.12 25 user	$1,668
NetWare 3.12 50 user	$2,092
NetWare 4.1 5 user	$484
NetWare 4.1 10 user	$989
NetWare 4.1 25 user	$1,359
NetWare 4.1 50 user	$1,668
9-port 10BaseT Ethernet Hub	$110
12 port Ethernet Hub	$215
Switch Hub	Call
16-bit Ethernet combo	$32
SMC EtherEZ combo	$78
3COM 16-bit Ethernet, RJ45	$80
Intel EtherExpress PCI Pro/100	$98
Intel NetPort EL	$320
HP JetDirect EX Plus3	$369

Internet/World Wide Web Setup and Consultation

Consulting services on

- Internet service provider selection
- Hardware/software selection
- Security firewall design/setup
- WWW Server/Email/FTP Setup
- WWW Home Page design
- ISDN/Frame Relay/T1 set up

Internet Plug & Play Server

- Intel Pentium® processor
- 256K cache, 16MB memory
- PCI EIDE controller
- 1.2GB EIDE hard drive
- 1.44MB TEAC Floppy Drives
- PCI Graphics w/1MB
- 14" Non-interlaced .28mm SVGA
- 2 Serial (high speed),1 parallel port
- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 101 Keyboard
- Middle tower with Power Supply
- **Linux OS installed & configured**
- **Web Server, FTP server and EMail**
- **One year On-Site services**

100 MHZ $1,740

120MHz $1,820

133MHz $1,993

COUPON

Anti-Vrus for Windows 95 (developed by Trend Micro)

FREE w/ System Purchase

Prices valid with coupon only. Offer expires February 29, 1996

COUPON

One Stop Shopping For Optimal Network Solutions

- Networking Hardware/Software
- Network Design, Installation & Training
- Turnkey Solution/System Integration
- Internet Connectivity Solution
- Top-Notch Expertise/Support in Novell Netware, UnixWare, Windows NT, SCO UNIX/ODT, Solaris, Lantastic & TCP/IP Networking

Novell Gold Authorized Reseller

File/Print Server
NetWare/UNIX Connectivity
Internet E-Mail Gateway
Network Backup Server
FAX Server
CD-ROM Server
Dial-in/Dial-out/Modem Server
Storage Subsystems

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Calendar Of Events *continued...*

er Systems Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 6–9 Internetworking: Bridges And Routers Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 7 Desktop Design Studio I Class. Pleasant Hill. UC Berkeley Extension. Contact: (415)252-5224.

February 7 Excel For Beginners Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499

February 7 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040

February 7 Intro To Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 7 Intro To Lotus Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 7 Intro To WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 7 Netware 4 Overview Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 7 Quattro Pro 6.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 7 The Internet: How To Understand, Access, And Use The Internet Seminar. San Mateo. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 7 Using The Internet Seminar. Concord. SkillPath Seminars. Contact: 1-800-873-7545.

February 7–8 AutoCAD Designer Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 7–8 AutoCAD R13 Update Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 7–8 Intro To Object PAL 5.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 7–9 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 8 Beginning Lotus 5.0 For Windows Class. Oakland. Inacom Information Systems. Contact: (510)444-5700 ext. 188 or 173.

February 8 Information Strategies: Windows 95 Or Windows NT As Clients Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 8 MS DOS 6.2 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 8 Paradox 4.5/5.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 8 The Internet: How To Understand, Access, And Use The Internet Seminar. Sacramento. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 8 The Internet: How To Understand, Access, And Use The Internet Seminar. San Jose. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 8 WordPerfect 6.0/6.1 For DOS/Windows Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 8–9 NetWare 4.x Installations And Configuration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 8–9 PC Repair 2-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 8–March 14 Intro To QuickTime And Digital Video Editing Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 8–March 28 Graphic Design For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 8–April 11 Graphics And Human Interface For Multimedia On The PC Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 8–May 23 4.4BSD UNIX Kernel Internals: An Intensive Code Walkthrough Class. Berkeley. UC Berkeley Extension. Contact: (510)642-4111.

February 9 Basics Of Networking Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 9 Intro To MAS 90 Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499.

February 9 MS Windows 3.1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 9 RealWorld 6.6 For DOS/Novell Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 9 The Internet: How To Understand, Access, And Use The Internet Seminar. Monterey. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 9–10 Internet Web Design 2: Behind The Screens—Navigation And Architecture Workshop. Brisbane. United Digital Artists. Contact: 1-800-22PIXEL.

February 10 Careers In Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 10 Producing Video For CD-ROM Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 10–11 Digital Audio Editing With ProTools Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 11 Macintosh Graphics Smorgasbord Class. Berkeley. Kala Institute. Contact: (510)549-2977.

February 12 Excel 7.0 New Features Upgrade Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 12 Finding It On The Internet Seminar. San Jose. SkillPath Seminars. Contact: 1-800-873-7545.

February 12 ISDN For Your Office LAN Seminar. Santa Clara. Aimnet Corp. Contact: (408)567-3800 ext. 300.

February 12 MS Office 4.2 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 12–13 Hands-On NetWare 3.x Installation And Configuration Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 12–13 Internet Web Design 1: Tools And Techniques Workshop. Brisbane. United Digital Artists. Contact: 1-800-22PIXEL.

February 12–14 Oracle7 For Application Developers Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 12–15 3D Studio Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 12–15 AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 12–16 3D Studio Class. Sausalito. The ACADemy. Contact: (415)331-9466.

February 13 Finding It On The Internet Seminar. Oakland. SkillPath Seminars. Contact: 1-800-873-7545.

February 13 Intro To Powerpoint For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 13 The Internet: How To Understand,

MIC SUPER 486 SYSTEMS

AIR 486DX4 PCI Mother Board w/256K
8MB 72 Pin Simm (Expandable to 128MB)
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630MB Western Digital Hard Drive (10ms)
PCI EIDE w/ Fast I/O 16550 UART
PCI 64 Bit Graphic Card w/1MB
Shamrock 14" Digital 1024x768 .28 NI
Toshiba or Panasonic X4 Speed CD ROM
Media Vision Sound Card 16Bit
J-S Jazz Stereo Hi-Fi Speakers
Mini Green Tower Case w/230W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
DOS 6.22 and WINDOWS 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work,
MS Money, MS Entertainment Pack etc ...

DX2/66	**$1,165**	**DX4/100**	**$1,195**
DX2/80	**$1,175**	**DX4/120**	**$1,225**

WINDOWS 95 (CD Full Version)	Add $66
112W High Performance Speaker	Add $85
Diamond Stealth64 Video 2001 2MB	Add $110
Sound Blaster AWE32	Add $135
16MB Fast Simm 72 pin	Add $245

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IBM ThinkPad 701CS
486DX4/75, 8MB, 720MB HD, Dual Scan, 2/II or 1/III PCMCIA, 14.4K Fax/Modem, 16bit sound,Trackpoint III Device **$3,365**

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486DX4/75, 8MB,720MB HD,ActiveColor 2/II or 1/III PCMCIA, 14.4K Fax/Modem, 16bit sound,Trackpoint III Device **$3,865**

IBM ThinkPad 755CV
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IBM ThinkPad 755CX
Pentium75MHz, 8MB,540MB HD,1.44FDD 2/II or 1/III PCMCIA, 16 Bit Sound, Active Color,Trackpoint III Device **$4,445**

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Pentium75MHz, 8MB, 810MB HD, X4 CD, 2/II or 1/III PCMCIA, 16 Bit Sound, Active Color, AccuPoint Mouse **$4,365**

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Pentium90MHz,8MB,720MB HD,1.44FDD 2/II or 1/III PCMCIA, 16 Bit Sound, Active Color, AccuPoint Mouse **$4,215**

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IBM Mother Board w/256K
8MB Ram Expandable To 128MB
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EIDE Cont. w/Fast I/O support 2.88FDD
1.44MB Floppy Drive
PCMCIA Front Access Bay
IBM 101 Keyboard
IBM Mouse
IBM Selectabus Technology
3 Years Warranty
IBM Dos 6.3, Windows 3.11, OS/2 Warp v.3, QAPlus, Library, Triton cocession, Softnet faxworks, IBM Netfinity service, Sedona reprint, Rapid resume manager,QAPlus pro plug & play, Anyview, Video f/windows runtime, IBM Works,IBM Video person to person,Internet connection,Multimedia viewer, Hyperaccess lite etc . . . .

486DX4 - 100Mhz	**$1,355**
75MHz Pentium	**$1,655**
75Mhz Pentium	**$1,955**
(16MB Ram, 850MB IBM Hard Drive)	
90Mhz Pentium	**$1,755**
90Mhz Pentium	**$2,055**
(16MB Ram, 850MB IBM Hard Drive)	

PRINTERS

HP	
DeskJet 600/660C/850C	$299/$389/$529
DeskJet 1600C PC/Mac	$1,329
DeskJet 1600C PC/Mac (Postscript)	$1,329
Laser Jet 4 Plus/4M Plus	$1,399/$1,899
Laser Jet 4Si/4SiMX	$2,875/$3,995
Color Laser Jet	$5,535
Laser Jet 4V/4MV	$1,895/$2,695
Laser Jet 5L/5P	$519/$849
Brother	
HL-630/645/655/665	$395/$455/$595/$695
Scanner IC-100/IC-150	$249/$299

MIC HIGH PERFORMANCE

Intel Zappa Mother Board w/256K Cache
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
630MB Western Digital Hard Drive (10ms)
PCI EIDE w/ Fast I/O 16550 UART
PCI 64 Bit Graphic Card w/1MB
Toshiba or Panasonic X4 Speed CD ROM
Media Vision Sound Card 16Bit
J-S Jazz Stereo Hi-Fi Speakers
Shamrock 14"Digital 1024x768 .28NI
Mini Green Tower Case w/230W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
CPU Heatsink and Cooling Fan
DOS 6.22 and WIND OWS 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work,
MS Money , MS Entertainment Pack etc ...

P5 - 166	**$2,125**	**P5 - 90**	**$1,465**
P5 - 133	**$1,725**	**P5 - 75**	**$1,375**
P5 - 120	**$1,565**	**P5 - 66**	**$1,335**
P5 - 100	**$1,505**	**P5 - 60**	**$1,245**

850MB/1.2GB	Add $20/$95
15"/17"Acer (3yrs warr)	Add $110/$395

VIDEO GRAPHIC CARDS

GENOA	
Phantom 64 VL/PCI W/2MB	$158
ATI	
WinBoost PCI 1MB DRAM Mach64	$116
WinBoost VLB 1MB DRAM Mach64	$120
WinBoost PCI 2MB DRAM Mach64	$156
WinBoost VLB 2MB DRAM Mach64	$157
WinTurbo 64 PCI/VLB 2MB VRAM	$231
WinTurbo 64 PCI/VLB 4MB VRAM	$395
HERCULES	
Stingray VLB/PCI 1MB DRAM	$95
Stingray 64/Video PCI 1MB DRAM	$149
Stingray 64/Video PCI 2MB DRAM	$189
Graph.Terminator64 PCI 2MB DRAM	$198
Graph.Terminator Pro 2MB VRAM	$339
Graph.Terminator Pro 4MB VRAM	$488
DIAMOND	
Stealth64 Video PCI 1MB DRAM	$125
Stealth64 Video VLB 1MB DRAM	$128
Stealth64 Video PCI 2MB DRAM	$165
Stealth64 Video VLB 2MB DRAM	$168
Stealth64 Video PCI 2MB VRAM	$265
Stealth64 Video VLB 2MB VRAM	$269
Stealth64 Video PCI 4MB VRAM	$449
Stealth64 Video VLB 4MB VRAM	$459
MATROX	
Impression Plus 2MB Upgrade	$199
Impression Plus PCI 2MB	$309
Impression Plus 220 PCI 2MB	$399
Millenium PCI 2MB	$305
Millenium PCI 4MB	$449
NUMBERNINE	
FX Vision 330 PCI 1MB DRAM	$114
FX Vision 330 PCI 2MB DRAM	$165
FX Motion 771 PCI 2MB VRAM	$255
FX Motion 771 PCI 4MB VRAM	$399

MOHER BOARD WITHOUT CPU

486DX4 PCI MB 256K EIDE, I/O 16550	$139
486DX4 VLB MB 256K	$118
AIR 486DX4 VP PCI MB 256K	$125
AIR 486MIS MB 256K w/SCSI/IDE/I/O	$178
AIR Dual Pentium PCI MB 512K	$745
INTEL Pentium 60/66 MB 256K	$145
P5/75-150 MB 256K (Intel Triton)	$185
INTEL ZAPPA 256K (Triton)	$215
INTEL Endeavor 256K Pipe Lined Burst	$305

CONTROLLERS

IDE VLB 2FD/2HD WinBond	$19
EIDE VLB 4FD/4HD Fast I/O 16550 UART	$34
EIDE PCI 4FD/4HD Fast I/O 16550 UART	$38
Adaptec 1522B/1542CF (SCSI)	$75/$185
Adaptec 2842 VLB (SCSI)	$196
Adaptec 2940/2940W PCI (SCSI)	$195/$236
Adaptec 2942 PCI (SCSI)	$288

SOFTWARE

Windows NT 3.51 Workstation CD/FD	$287
Windows NT Server 3.51	$645
Windows NT Server for 10 Client License	$925
Windows 95 Full Version CD	$95
Windows for Workgroups	$55
Novell 3.12 for Multi-Users	$Call
Novell 4.1 for Multi-Users	$Call
NetWare Lite Ver. 1.1	$125
Adobe/Aldus Pagemaker 5.0A (win)	$545
Corel Draw 6.0 CD (win)	$445

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Intel Zappa Mother Board w/256K Cache
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
1.2GB Western Digital or Quantum (10ms)
PCI EIDE w/ Fast I/O 16550 UART
Diamond Stealth64Video 2001 1MB w/MPEG
Toshiba or Panasonic X4 Speed CD ROM
Sound Blaster 16 MCD
112W Stereo High Performance Speakers
Acer 15" 1024x768 .28 NI (3yrs Warranty)
Mid Green Tower Case w/250W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
CPU Heatsink and Cooling Fan
Choice of WIND 95 or DOS 6.22 + WIND 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work ,
MS Money , MS Entertainment Pack etc ...

P5 - 166	**$2,375**	**P5 - 90**	**$1,715**
P5 - 133	**$1,975**	**P5 - 75**	**$1,625**
P5 - 120	**$1,815**	**P5 - 66**	**$1,585**
P5 - 100	**$1,755**	**P5 - 60**	**$1,495**

Colorado 800MB Tape Backup	Add $185
Microsoft Office Professional 4.3	Add $216

HARD DRIVES

FUJITSU	
M1606T/S 1.08GB IDE/SCSI 10ms	$208/$245
CONNER	
1.08GB IDE	$205
1.2GB IDE	$257
1.08GB FSCSI II	$245
MAXTOR	
850MB IDE	$183
1.08GB IDE	$205
1.2GB IDE	$257
1.6GB IDE	$275
QUANTUM	
850MB IDE	$183
850MB SCSI	$195
1.08GB SCSI	$285
2.1 GB SCSI	$679
WESTERN DIGITAL	
635MB IDE	$175
850MB IDE	$184
1.08GB IDE	$215
1.2GB IDE	$262
1.6GB IDE	$295
SEAGATE	
1.05GB FSCSI-2, (ST31230N/W) 10ms	$395/$435
2.14GB FSCSI-2 (ST32550N/W)8.5ms	$885/$945
4.2GB FSCSI-2 (ST15230N/W) 9ms	$995/$1,045
4.29GB FSCSI-2(ST15150N/W)8.5ms	$1,185/$1,215
9.08GB FSCSI-2 (ST410800N/W) 12ms	$2,025

SOUND CARDS / SPEAKERS

SOUND BLASTER PRO VE	$63
SOUND BLASTER 16 BASIC VE	$74
SOUND BLASTER 16 MCD	$79
SOUND BLASTER 16 SCSI II	$99
SOUND BLASTER AWE32	$175
ACER 16 BIT SOUND CARD	$49
MEDIA MAGIC 16 SOUND	$59
MEDIA VISION PRO-AUDIO 16	$52
MEDIA VISION JAZZ 16	$49
SPEAKERS	
J-S SPEAKER 112W HIFI	$68
J-S SPEAKER 112W ENHANCED	$85
J-S SPEAKER 224W 2 WAYS HIFI	$99
J-S SPEAKER 300W 2 WAYS HIFI	$185
J-S SPEAKER 300W 3 WAYS HIFI	$189
J-S 300W SUB WOOFER SYSTEM	$248
J-S POCKET SPEAKER J-009	$12
SPEAKER MA80 80W 2 WAYS HIFI	$55

TAPE BACKUP / CD ROM

CONNER 420MB INT	$119
CONNER 850MB INT	$183
COLORADO INT 350MB	$119
COLORADO INT T-1000 800MB	$179
COLORADO INT 1.4GB	$225
COLORADO POWER 1GB INT (SCSI)	$588
CD ROM	
SONY X4 SPEED IDE	$125
EPSON X4 SPEED IDE	$125
PANASONIC X4 SPEED	$125
TEAC X4 SPEED IDE	$125
TEAC X6 SPEED IDE	$175
TOSHIBA X4 SPEED IDE	$129
TOSHIBA X4 SPEED T3601B SCSI	$265
TOSHIBA X6 SPEED T3701B SCSI	$319
NEC X4 SPEED 511 SCSI	$215
NEC X6 SPEED 512 SCSI	$315
PIONEER X4 SPEED IDE	$135

MIC PROFESSIONAL SYSTEM

Intel Endeavor MB/256K Pipe Lined Burst
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
1.2GB Western Digital or Quantum (10ms)
PCI EIDE w/ Fast I/O 16550 UART
Diamond Stealth64Video2001 2MB MPEG
Toshiba or Panasonic X4 Speed CD ROM
Sound Blaster 16Bit VIBRA
112W Stereo High Performance Speakers
Acer 15" 1024x768 .28 NI (3yrs Warranty)
Mid Green Tower Case w/250W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse compatible w/Pad
CPU Heatsink and Cooling Fan
Choice of WIND 95 or DOS 6.22 +WIND 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work
MS Money , MS Entertainment Pack etc ...

P5 - 166	**$2,515**	**P5 - 90**	**$1,855**
P5 - 133	**$2,115**	**P5 - 75**	**$1,755**
P5 - 120	**$1,955**	**P5 - 66**	**$1,705**
P5 - 100	**$1,895**	**P5 - 60**	**$1,615**

17"Acer High Res Monitor(3yrs warr)	Add $295
14.4K/28.8K Fax/Modem (v.34)	Add $59/$128

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F2-17EX/T2-17TS /T2-17	$923/$977/$1,198
T2-20/F2-21/FX2-21	$1,877/$1,775/$2,765
MAGNAVOX	
15"/17"MAGNASCAN	$328/$648
VIEWSONIC	
15" 15ES/15GS/15GA	$355/$425/$479
17" 17EA/17GA	$626/$739
17" 17GS/17PS	$673/$825
17" 1769DC	$635
17" PT770/V775	$885/$945
21" 20G	$1,169
21" 21PS	$1,567
21" PT810	$1,885
SONY	
15" CPD-15SX1	$435
15" CPD-15SF1/CPD-15SF2	$459/$484
17" 17SF2/17SE2	$817/$1,025
20" 20SF2	$1,695
NEC	
15" 15XV+	$465
17" 17XV+	$765
21" XE21/XP21	$1,719/$1,915
SAMSUNG	
15" 15GLE/15GLI	$385/$425
17" 6NE/17GL	$615/$649
17" 17GLI/17GLS	$695/$775
17" 17GLSI	$825
20" 20GLS	$1,255
ACER	
14" AV34T	$216
15" AV55	$299
15" AV56L	$339
17" AV76i	$595
NOKIA	
15" 449E	$423
17" 447L/447X/447X-TCO	$675/$915/$1,085
21" 445X/445X-TCO	$1,855/$1,985

NETWORK / FAX MODEM

3COM	
3C509 ELINK III Coax / 5Pack	$85/$386
3C509 ELINK III TP / 5Pack	$75/$376
3C509 ELINK III Combo / 5Pack	$95/$415
3C509 ELINK III EISA Coax/TP	$218/$219
SMC	
ELITE ULTRA 16 Coax / 6Pack	96/$399
ELITE ULTRA 16 TP / 6Pack	$89/$355
ELITE ULTRA 16 Combo / 6Pack	$99/$445
ELITE ULTRA 32 EISA Combo	$206
ETHEREZ 16 Combo / 6Pack	$79/$465
ETHERPOWER PCI Combo	$155
TIGER HUB 3212TC (12TP+BNC+AUI)	$359
FAX MODEM	
28.8K V.34 (Rockwell Chip set) Ext	$148
28.8K V.34 (AT&T Chip set) Int	$128
USROBOTICS Sportster 14.4K Int	$88
USROBOTICS Sportster 14.4K Ext	$107
USROBOTICS Sportster 28.8K Int V.34	$177
USROBOTICS Sportster 28.8K Ext V.34	$193
SUPRA Express 14.4K Int	$76
SUPRA Express 28.8K Int	$169
HAYES Accura 14.4K Int / Ext	$83/$98
HAYES Accura 28.8K Int / Ext V.34	$171/$201
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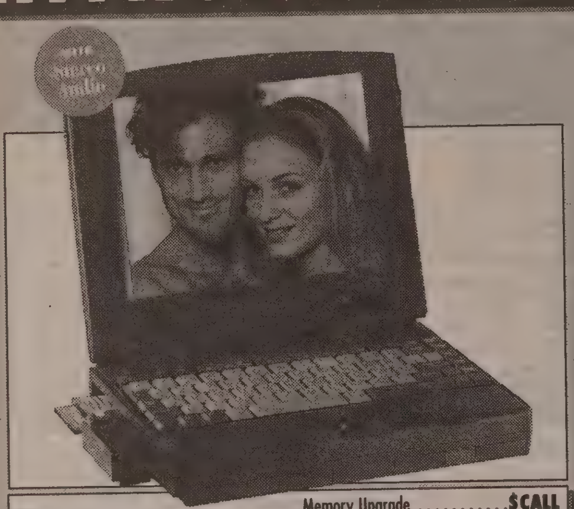

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DISPLAY	CPU TYPE	340 MB	510 MB	810 MB	1.2 GB
DUAL SCAN 4 MB RAM 10.3" SCREEN / 128K CACHE	486DX4-100	$1611	$1684	$1833	$1976
ACTIVE COLOR 4 MB RAM 9.5" SCREEN / 128K CACHE	486DX4-100	$1901	$1974	$2103	$2266
DUAL SCAN 8 MB RAM 10.3" SCREEN / 256K CACHE	PENTIUM® 90 PENTIUM® 100	$2060 2114	$2133 2187	$2262 2316	$2425 2479
ACTIVE COLOR 8 MB RAM 10.2" SCREEN / 256K CACHE	PENTIUM® 90 PENTIUM® 100	$2325 2386	$2398 2459	$2527 2588	$2690 2751

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16 MB RAM	Add $640
PCMCIA Ethernet Card Coax/UTP	$125
Extra Battery	$CALL

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- Built-In Pointer Device
- 16-Bit Sound Card/Speaker/Mike
- Only 6.7 Lbs
- Docking Station Option

DISPLAY	CPU TYPE	510 MB	810 MB	1.2 GB
DUAL SCAN w/4 MB	486DX4-100	$2268	$2397	$2560
ACTIVE COLOR w/4 MB	486DX4-100	$2663	$2792	$2955
DUAL SCAN w/8 MB w/256K CACHE	PENTIUM® 90 PENTIUM® 100 PENTIUM® 120 PENTIUM® 133	$2683 $2744 $2803 $2976	$2812 $2873 $2932 $3105	$2975 $3036 $3095 $3268
ACTIVE COLOR w/8 MB w/256K CACHE	PENTIUM® 90 PENTIUM® 100 PENTIUM® 120 PENTIUM® 133	$2968 $3029 $3068 $3287	$3099 $3158 $3197 $3416	$3260 $3321 $3360 $3579

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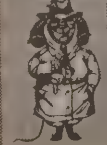

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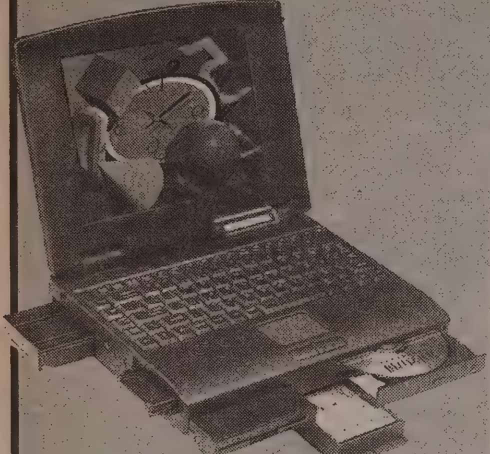

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- •One Type III PCMCIA Slot
- •16 Bit Sound Card
- •Built-In GLIDE POINT
- •Built-In Joystick
- •OPTIONAL 4X CD-ROM

DISPLAY	CPU TYPE	510 MB	810 MB	1.2 GB
DUAL SCAN	PENTIUM® 90	$2703	$2832	$2995
w/8 MB	PENTIUM® 100	$2764	$2893	$3056
11.3" SCREEN	PENTIUM® 120	$2823	$2952	$3115
	PENTIUM® 133	$3016	$3145	$3308
ACTIVE SCREEN	PENTIUM® 90	$2988	$3117	$3280
w/8 MB	PENTIUM® 100	$3049	$3178	$3342
10.2" SCREEN	PENTIUM® 120	$3088	$3217	$3380
	PENTIUM® 133	$3307	$3436	$3599

AFFORDABLE 486 PCI/VLB

486DX4-120 PCI/VLB (AMD)
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486DX4-100 (INTEL)
$825
486DX-100 (AMD)
$823
486DX2-80 (AMD)
$776
486DX2-66 (INTEL)
$812
486SX-50 (INTEL)
$769

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- Trident PCI/VLB w/1 MB RAM
- 14" SVGA NI .28dp Monitor
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- Mini Tower Case w/230W PS

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16 Bit Sound Card
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3) 8X CD-ROM
16 Bit Sound Card
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- MS Encarta
- MS Dangerous Creatures
- MS World of Flight
- MS CD Sampler
- MS The World of Nature

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Impression 14" .28 NI	$225
Impression 7 17"	555
CTX 15" .28 NI	345
ADI 15" 4GP	355
ADI 17" 5EP .28	615
ViewSonic 15ES 15" 1024x768	375
ViewSonic 17" 1600x1280	810
ViewSonic 17G 1280x1024	690
Sony 15 5F	489
Sony 17 SR	869
Mag 15FE	375
Mag 17F	689

DISPLAY CARDS

ATI Ultra Win Turbo 64 PCI/4 MB	$405
ATI Ultra Win Turbo PCI/VLB 2 MB	255
Orchid Kelvin 64 VLB/PCI 1 MB	120
Orchid Kelvin 64 VLB/PCI 2 MB	160
Diamond Stealth 64 PCI/VLB 4 MB VRAM	390
Diamond Stealth 64 PCI/VLB 2 MB VRAM	255
Diamond Stealth PCI/ 1 MB DRAM	125
Diamond Stealth PCI/2 MB DRAM	178
Cirrus Logic 5428 VLB/1 MB 2 MB	75/112
Cirrus Logic 5434 PCI/1 MB	89

HARD DRIVES

730 MB IDE	$175
830 MB IDE	189
1.2 GB IDE	235
2.1 GB SCSI	595

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350 MB Tape Back-up Int/Ext	150/325

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486SX/DX-25/33/50/66 PCI	135
Asus Pentium® MB For 90/100 256K	190

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1.44 MB (3.5") FDD	$24
1.2 MB (5.25") FDD	38

MOUSE

3 Button Serial	$8
Microsoft Serial	22
Logitech First Mouse	28

CONTROLLER CARDS

32 Bit 2940 SCSI Card	$195
32 Bit 2940W SCSI Card	239

MULTIMEDIA/CD-ROMS

Sony 2X	$65
Toshiba 4X SCSI	285
NEC 4X SCSI	230
Mitsumi 4X IDE	150
Teac 4X IDE	138
Plextor 4X SCSI	295
Plextor 6X SCSI	430

SOUND CARDS

Sound Blaster 16Bit	$65
Sound Blaster AWE	259

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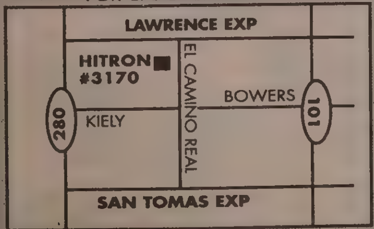

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Calendar Of Events *continued...*

Access, And Use The Internet Seminar. Walnut Creek. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 13 Using Windows 3.1 Within A Novell NetWare Framework Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 13 Word 7.0 Win/Mac Upgrade Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 13–16 Hands-On NetWare Service And Support Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 13–16 Intro To Datacomm And Networks Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 13–27 Instructional Design For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 14 Excel 5.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 14 Finding It On The Internet Seminar. San Francisco. SkillPath Seminars. Contact: 1-800-873-7545.

February 14 Networking Windows 95 Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 14 Project 4.0 Win/3.0 Mac Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 14 The Internet: How To Understand, Access, And Use The Internet Seminar. Oakland. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 14–16 Intro To Delphi Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 14–16 Updating From NetWare 3.x To 4.x Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 14–April 3 Building A Multimedia Business—Developing A Business Plan And Getting Started Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 15 Access 2.0 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 15 Beginning MS Word 6.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 15 Finding It On The Internet Seminar. Santa Rosa. SkillPath Seminars. Contact: 1-800-873-7545.

February 15 Information Strategies: Windows 95 Or Windows NT As Clients Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 15 Intermediate Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 15 MAS 90 for Intermediates Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499.

February 15 The Internet: How To Understand, Access, And Use The Internet Seminar. Palo Alto. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 15 The Internet: How To Understand, Access, And Use The Internet Seminar. Sacramento. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 15–16 Tuning Oracle7 Applications Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 16 Avid: Media Composer For Producers Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 16 Finding It On The Internet Seminar. Sacramento. SkillPath Seminars. Contact: 1-800-873-7545.

February 16 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 16 Intermediate Access 2.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700 ext. 188 or 173.

February 16 Intermediate MS Word 6.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 16 Netware 4 Overview Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 16 The Internet: How To Understand, Access, And Use The Internet Seminar. Santa Rosa. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 16 Word 6.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 16–23 Multimedia Business Presentations Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 16–March 1 Intro To Photoshop Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 16–March 22 Intro To Fractal Painter Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 17–18 Nonlinear Editing With Adobe Premiere Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 17–24 Basic Word Processing On Macintosh Class. Berkeley. Kala Institute. Contact: (510)549-2977.

February 18–25 Intro To Painter By Fractal Design Class. Berkeley. Kala Institute. Contact: (510)549-2977.

February 19–21 Hands-On Lotus Notes Administration Class. San Jose. American Institute. Contact: 1-800-345-8016.

February 20 Accounting Software Comparison Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499.

February 20 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 20 Networking Windows 95 Free Seminar. San Leandro. Network Data Solutions. Contact: 1-800-998-3540.

February 20–21 PC Repair 2-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 20–21 Troubleshooting And Maintaining PCs Seminar. San Francisco. Data-Tech Institute. Contact: (201)478-5400.

February 20–22 A Critical Introduction To Multimedia Design And Production Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 20–22 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 20–23 OS/2: A Comprehensive Hands-On Workshop. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 20–23 Wireless Networks Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 20–April 9 Beginning 3D On The Mac Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 21 Advanced Excel 5.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700 ext. 188 or 173.

February 21 Premiere Tips And Techniques Intensive Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

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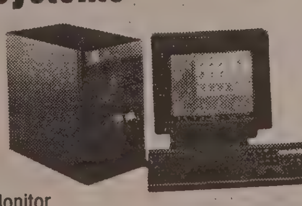

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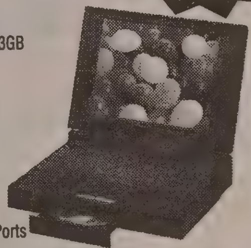

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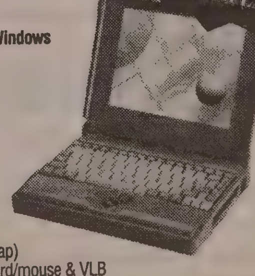

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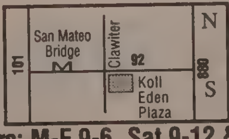

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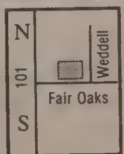

Calendar Of Events *continued...*

February 22 Beginning MS PowerPoint 4.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 22 Intro To Windows 3.1 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 22 Intro To Windows 95 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 22 Lotus 1-2-3 4.0/5.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 22 Lotus For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 22 Setting Up Your Own Web Server Seminar. Santa Clara. Aimnet Corp. Contact: (408)567-3800 ext. 300.

February 22–23 Network Fundamentals Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 22–April 25 Intermediate Interface Design: Designing Original Interfaces For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 23 Intermediate MS PowerPoint 4.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 24 Doing Business On The Internet Free Seminar. San Francisco. Network Data Solutions. Contact: 1-800-998-3540.

February 24 Using EDI And Automating Warehouse Distribution Systems Free Seminar. San Francisco. Network Data Solutions. Contact: 1-800-998-3540.

February 24–25 Production Management For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 24–25 Survey Of Interactive Advertising Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 24–March 3 Creating Multimedia With Apple Media Tool Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 24–March 9 Getting Started With Macromedia Director Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 25–March 3 Multimedia Across Platforms Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 26 CNA Hands-On Study Sessions Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 26 How To Design Attention-Grabbing Brochures, Catalogs, Ads, Newsletters, And Reports Seminar. Sacramento. SkillPath Seminars. Contact: 1-800-873-7545.

February 26–28 Intro To Access Basic 2.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 26–28 Intro To Visual Basic 3.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

February 26–28 Project Management For CD-ROM Titles Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 26–April 1 HyperCard Basics Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

February 26–April 15 Multimedia Theory And Criticism Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or

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FRACTAL PAINTER 4.0 *continued from page 276*

you must go to the triangle to change its “gray” setting left over from the previous sketching exercise. In the Weinmann book mentioned below, the process is broken out and subdivided into more steps so that you don’t miss anything and can more easily go back and see where you took a wrong turn.

As of this writing, the books on Fractal Painter 4.0 haven’t hit the racks yet, but these titles on 3.1 contain most of the operative elements that you will need.

Painter 3.1 for Macintosh: Visual QuickStart Guide by Elaine Weinmann and Peter Lourekas, 250 pgs., $19.95, Peachpit Press. This is a good reference, as it cuts to the chase and leaves nothing to chance. The Fractal manuals have good marginal insights about digital artistry all along the way, and this book adds many more. There is a generous helping of large-scale examples of how many of the tool strokes appear. In the section on rotoscoping a QuickTime movie, the drawn images are added to the margins to provide a flipbook that you can see in motion.

The new version has a networking feature that can support multiple users who can log into a single artwork session and take turns collaborating on a project.

The Painter Wow! Book by Cher Threinen-Pendarvis and Jim Benson, 224 pgs./CD-ROM, $39.95, Peachpit Press, is really professionally inspirational, like the Photoshop Wow! books. The authors first go into introductory basics and concepts of Painter, providing yet another point of view. The book takes off in all the many task-oriented sections, some of which are encompassed on one page.

When you are finishing that brochure or spiffing up that Web page and you have to do one more thing, and you want to do it *now*, this book can provide many of the solutions: dropping a shadow, backlighting 3-D text, melting text into water, solarizing, hand-tinting a photo, draping a weave, sculpting a portrait, and animating illustrations in Director. The CD-ROM is chock full of software demos and try-outs, stock photos and video clips, and custom brush and paper libraries built by the authors.

So now you are all set to go out and tackle that mural or cathedral ceiling. ■

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RESOURCES:

Fractal Design Corporation
P.O. Box 2380
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Peachpit Press
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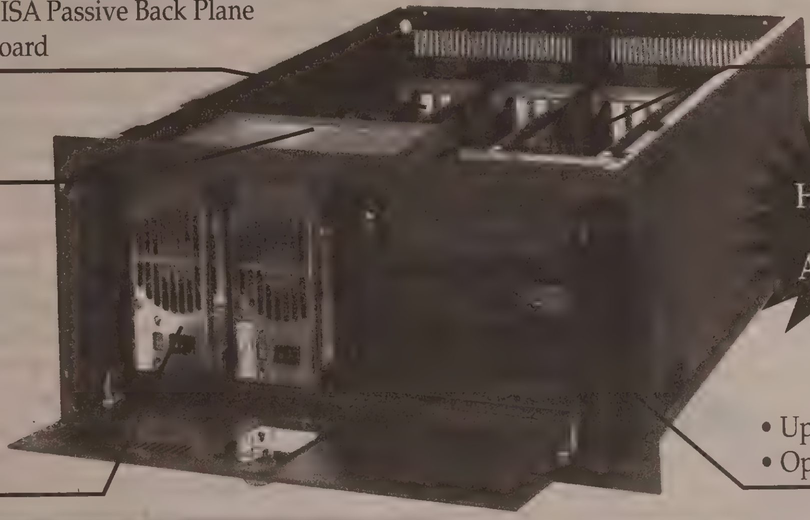

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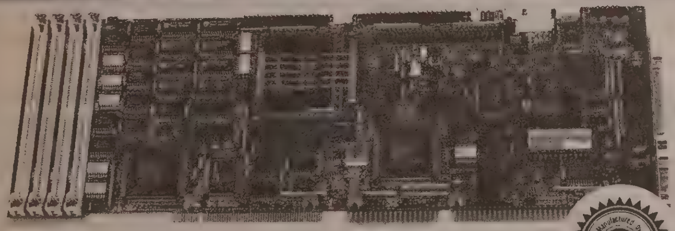

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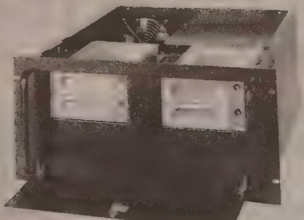

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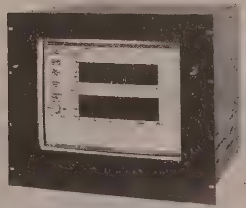

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Resources

Calendar Of Events *continued...*

http://msp.sfsu.edu .

February 27 Advanced Word For Windows 6.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700 ext. 188 or 173.

February 27 Avid: Media Composer Editing Tips And Techniques Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 27 How To Design Attention-Grabbing Brochures, Catalogs, Ads, Newsletters, And Reports Seminar. Oakland. SkillPath Seminars. Contact: 1-800-873-7545.

February 27 Using Computers In Business Seminar. San Francisco. San Francisco Business Computers. Contact: (415)788-5338 or *425-1545@mcimail.com* .

February 27 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 27–March 1 C Programming Hands-On Workshop. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 27–March 1 C Programming Hands-On Workshop. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 27–March 1 Internet And System Security: Attacks And Countermeasures Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 27–March 1 UNIX Hands-On Workshop. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 28 How To Design Attention-Grabbing Brochures, Catalogs, Ads, Newsletters, And Reports Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

February 28–29 Avid: Media Composer Effects Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

February 28–29 Communications and Modem Troubleshooting Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

February 29 Beginning MS Excel 5.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 29 Groupware: Combining Teamwork And Technology For Competitive Advantage Seminar. San Francisco. UC Berkeley Extension. Contact: (510)642-4111.

February 29 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 29–March 1 Fundamentals Of The PC For AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

March

March 1 Avid: 3D Effects On The Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 1 Beginning MS Excel 5.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 1 Fox Pro 2.6 For DOS/Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 1 Windows 3.1 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 2–3 Digital Video Editing For Windows Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 2–3 Intro To Adobe After Effects Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 2–23 Advanced Hands-On Interface Design Class. San Francis-

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- 1MB Trident Video Card
- Keytronics 101 Keyboard
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- 540MB IDE Hard Drive
- PCI EIDE Controller 2HD/FD I/o w/2 serial, 1 Parallel w/16550
- TEAC 1.44MB Floppy Drive
- 14" NI, .28 DPI, Color Monitor
- 1MB Trident PCI Video Card
- Keytronics 101 Keyboard
- Mini Tower Case w/230 WATT p/s
- Microsoft Serial Mouse
- 3Com 590C Ethernet Card

PENTIUM 75	**$1,149**
PENTIUM 90	**$1,239**
PENTIUM 100	**$1,289**
PENTIUM 120	**$1,339**
PENTIUM 133	**$1,519**
PENTIUM 150	**$1,619**
PENTIUM 166	**$1,819**

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- Pentium 75/90/100/120/133/150/166 4PCI/4ISA, Triton Chipset, 256k, Motherboard
- Intel CPU w/Heatsink & Fan
- 16MB 70ns, 72-PIN SIMM EDO RAM
- 1.08 GB IDE Hard Drive
- PCI EIDE Controller 2HD/FD I/O w/2 Serial, 1 Parallel w/16550
- TEAC 1.44MB Floppy Drive
- 17" NI, .28 DPI, 1280 X 1024 Color Monitor
- Keytronics 101 Keyboard
- Medium Tower Case w/230 WATT P/S
- Microsoft Serial Mouse
- Panasonic Quad-Speed CD-ROM
- 16-BIT Sound Blaster "VIBRA" Card
- 80 WATT Media Stereo Speakers

PENTIUM 75	**$2,029**
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PENTIUM 100	**$2,159**
PENTIUM 120	**$2,219**
PENTIUM 133	**$2,389**
PENTIUM 150	**$2,479**
PENTIUM 166	**$2,699**

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15" 28 dpi, 1280 X 1024	$379
17" 28 dpi, 1280 X 1024	$659

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17" 28 dpi, 1280 X 1024	$579
17" 26 dpi, 1600 X 1280	$649

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15" G .28 dpi, 1280 X 1024	$409
15" GS .28 dpi, 1280 X 1024	$439
17" EA .28 dpi, 1280 X 1024	$669
17" GA .27 dpi, 1024 X 1024	$749
17" GS .27 dpi, 1280 X 1024	$699
17" PS .25 dpi, 1600 X 1280	$869
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DESKTOP w/230 P/S	$ 49
MINI TOWER w/230 P/S	$ 39
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SUPER TOWER w/300	$165

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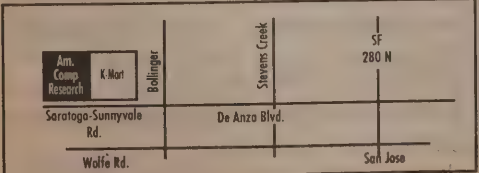
WESTERN DIGITAL IDE 1.08 GB	$219
WESTERN DIGITAL IDE 1.2 GB	$259
CONNER IDE 1.08 GB	$209
MAXTOR IDE 1.2 GB	$259
MAXTOR IDE 1.6 GB	$279
QUANTUM IDE 850 MB	$189
QUANTUM IDE 1.2 GB	$269



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Calendar Of Events *continued...*

co. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 4–7 AutoCAD Level 1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 4–April 3 Advanced Digital Photography Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 5 Accounting Software Comparison Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499.

March 5 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 5 Windows 3.1 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 5 Windows 95 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 5–6 ChannelCorp Advanced Channels Workshop. San Francisco. ChannelCorp Management Consultants. Contact: (604)263-4914.

March 5–8 Elementary AutoCAD Class. Sausalito. The ACADemy. Contact: (415)331-9466.

March 5–8 Intro To Client/Server Computing Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 5–8 Oracle Forms Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 5–26 VRML: The Virtual Reality Modeling Language For The World Wide Web Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 6 Intro To Windows 95 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 6 Preparing For An Online Edit Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 6–7 PC Repair 2-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 6–8 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 6–April 24 Law For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 6–May 8 An Inside Look At The World Of Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 7 Beginning MS Access 2.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 7–8 ChannelCorp Strategic Partnering Workshop. San Francisco. ChannelCorp Management Consultants. Call: (604)263-4914.

March 8 A+ Certification Hands-On Preparation Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 8 MS Office 4.2 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8 Paradox 4.5/5.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8 Quattro Pro 6.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8–April 26 2D Animating With Director Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 9–10 Digital Audio Editing With ProTools Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 9–10 Photoshop For Artists Class. Berkeley. Kala Institute. Contact: (510)549-2977.

March 9–16 Release 13 Update Training Class. Sausalito. The ACADemy. Call: (415)331-9466.

March 9–17 Applied Graphic Design For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 9–24 Making Video Work In Multimedia Applications Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 11 Finding It On The Internet Seminar. Monterey. SkillPath Seminars. Contact: 1-800-873-7545.

March 11 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 11 WordPerfect 6.0/6.1 For DOS/Windows Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 11–13 Writing For Multimedia Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 11–14 AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 11–April 15 Exploring Spatial Media Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 12 Finding It On The Internet Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

March 12–14 Intro To Adobe Photoshop For Graphic And Fine Artists Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 12–14 Multimedia ToolBook v3 For Windows Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 12–15 Hands-On Internetworking With TCP/IP Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 12–15 Hands-On Windows Networking Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 12–15 Wireless Networks Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 13 Avid: Media Composer Editing Tips And Techniques Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 13 Finding It On The Internet Seminar. Concord. SkillPath Seminars. Contact: 1-800-873-7545.

March 13 Project 4.0 Win/3.0 Mac Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 13 Word 7.0 Win/Mac Upgrade Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 14 Finding It On The Internet Seminar. Sacramento. SkillPath Seminars. Contact: 1-800-873-7545.

March 14 Intro To MS-DOS 5.0/6.2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 14 MS DOS 6.2 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 14–15 Avid: Media Composer—Integrating Third-Party Graphics Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 15 MS Windows 3.1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 15 RealWorld 6.6 For DOS/Novell Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 15–16 Intro To Video Game Production: An Industry Overview Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 15–29 Understanding Media: The Indiv-

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- Crystal 16-bit Sound Card
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- 1.08GB EIDE Hard Drive
- Acer Quard CD-ROM
- Diamond Stealth 64 w/1MB DRAM
- Sound Blaster 16bit Sound Card
- Mid-Tower Case w/250W P.S.
- Focus FK-6200 Soft Touch Keyboard w/Pad
- 15" Non-Interlaced COlor Monitor
- Logitech 3-Buttom Mouse Man
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- Quard Speed CD-ROM
- Trident 9440 PCI w/1MB DRAM
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ASUS	
P55TP4XE, Pipline Burst 256K	$185
486/PCI SP3, 256K, w/EIDE-IO	$123
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Stealth 64 Video 2MB/PCI VRAM	$240
Stealth 64 Video 4MB/PCI VRAM	$370
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Millenium PCI 2MB WRAM	$315
Millenium PCI 4MB WRAM	$440
Number 9	
9FX Vision 330 1MB/2MB	$120/170
9FX 531 1MB/2MB	$163/210
9FX 771 2MB/4MB	$240/410
Imagine 128 4MB PCI	$525

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.1542/1542CFK SCIS	$167/225
.1742/2742A SCSI	$185/295
.2940/2940UW SCSI w/kit	$185/280
.3940/3940W w/kit	$320/460

CD-ROM

NEC CDR-511(SCSI) 4 X Int	$190
NEC CDR-512 (SCSI) 6 X Int	$280
Mitsumi FX-400 4X Int.	$95
Acer 743 4X IDE INt.	$95
Toshiba 5402B 4X EIDE	$100
Toshiba 3701B 6X SCSI	$290

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Super File Server w/300W-UL PS	$215
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Full Tower Case w/300W-UL PS	$99
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...Feature: **Side Open & Digital Control LED...**	

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XV17/XE17/XP17	$732/980/1162
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15SF-II/17SF-II/20SE	$489/835/1805
ViewSonic	
15" ES/15GS/17EA/17GS	$350/415/635/685
17PS/20G	$835/1159
DigiView	
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CPU's & Memory

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P133	**$Call**
P120	**$Call**
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Memory	
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4 x 32/8 x 32	**Call**
1 x 36/2 x 36	**Call**
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Maxtor	
MXT-7850 850MB IDE	$177
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MXT-71260A 1.2GB 12MS IDE	$239
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LT-730A 730MB IDE	$180
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Others	
Fax modem 14400 /28800 Int	$43/119

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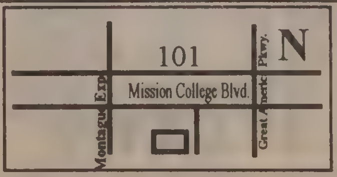

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- 104 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watts Power Supply
- Logitech Serial Mouse

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66MHz

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- Floppy Drive 1.44Mb
- Hard Disk 850Mb EIDE
- Window Accelerator PCI w/1Mb
- 14" Super VGA Color Monitor (1024 x 768) .28 NI
- 104 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watts Power Supply
- Logitec Serial Mouse
- Quad Speed 4X CD-ROM
- Sound Blaster 16-bit Sound Card
- Pair of Speakers

AMD 486DX4-100MHz	Add $ 30
AMD 486DX4-133MHz	Add $ 55

486 *Multimedia PCI*

100MHz

$ 1,208

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- CPU Cooling kit w/ Heatsink & Fan
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- Floppy Drive 1.44Mb
- Hard Disk 850Mb EIDE
- Windows AcceleratorPCI w/1Mb
- 14" Super VGA Color Monitor (1024 x 768) .28 NI
- 104 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watts Power Supply
- Logitec Serial Mouse
- Quad Speed 4X CD-Rom Drive
- Sound Blaster 16-bit Sound Card
- Pair of Yamaha Amplified Speakers (YST-M5)
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- Hard Disk 1.08Gb EIDE 11ms (PIO:4)
- Windows Accelerator PCI w/ 1Mb
- 14" Super VGA Color Monitor (1024 x 768) .28 NI
- 101 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watt Power Supply
- Logitec Serial Mouse

Pentium *Endeavor*

75MHz

$ 1,378

- Intel Endeavor Motherboard
- 256Kb Cache (Pipelined Burst Sram)
- Intel CPU P5-75MHz
- CPU Cooling kit w/ Heatsink & Fan
- 8Mb RAM Installed (72-pin)
- EIDE Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
- Floppy Drive 1.44Mb
- Hard Disk 1.08Gb EIDE 11ms (PIO:4)
- Diamond Stealth 64 PCI w/ 1Mb (64-bit)
- 14" Acer 34T SVGA Color Monitor (1024 x 768) .28 NI
- Keytronic 104 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watt Power Supply
- Microsoft Ergonomic Serial Mouse
- Quad Speed 4X CD-Rom Drive
- Sound Blaster 16-bit Sound
- Pair of Yamaha Amplified Speakers (YST-M5)

Pentium *Atlantis*

75MHz

$ 1,588

- Intel Atlantis Motherboard
- 256Kb Cache (Pipelined Burst Sram)
- Intel CPU P5-75MHz
- CPU Cooling kit w/ Heatsink & Fan
- 8Mb RAM Installed (72-pin)
- EIDE Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
- Floppy Drive 1.44Mb
- Hard Disk 1.08Gb EIDE 11ms (PIO:4)
- ATI Graphic Mach 64 PCI w/ 1Mb Dram (64-bit)
- 15" Acer 56L SVGA Color Monitor (1280 x 1024) .28 NI
- Keytronic 104 Keys Enhanced Keyboad
- Super Mini Tower Case w/ 230 Watt Power Supply
- Microsoft Ergonomic Serial Mouse
- Quad Speed 4X CD-Rom Drive
- Crystal 16-bit Sound
- Pair of Yamaha Amplified Speakers (YST-M5)
- Windows 95 CD-ROM *Pre-Loaded* Full Version

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Intel pentium 133MHz	Add $ 335
Intel pentium 150MHz	Add $ 355
Intel pentium 166MHz	Add $ 575

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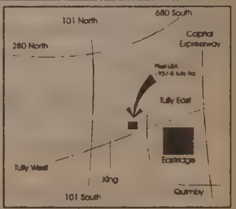

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486 PCI w/256Kb + IDE i/o on board (3V & 5V)	$108
Triton P5 Series w/256Kb (PipeLined Burst)	$158

FREE COMPUTER TECH

486 VLB w/256Kb (72-pin, 5V & 3V)	$118
486 PCI w/256Kb (72-pin, IDE w/IO)	$128
Triton P5-75--->200MHz w/256Kb + IDE i/o	$158
Triton P5-75--->200MHz w/256Kb (PipeLined Burst)	$178

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Integrated 2 serial (16550), 1 parallel (EPP) 2 floppy & enhanced IDE ports & 256kb Cache Pipelined Burst (Triton chipset)

P55CMS P5 w/256Kb P5-75 —> Future Pentium	$218
P55CMS P5 w/512Kb P5-75 —> Future Pentium	$288

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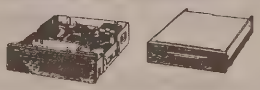

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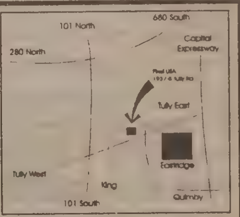

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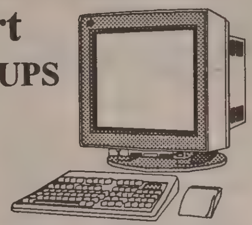

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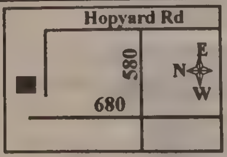

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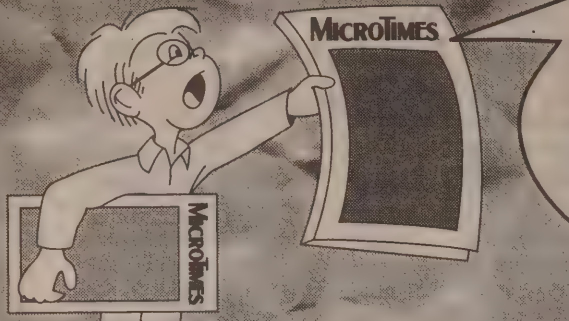

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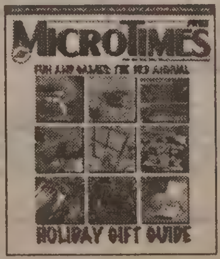

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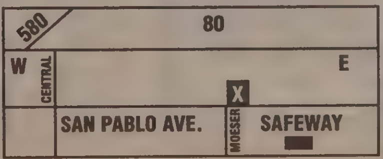

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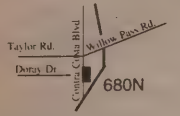

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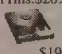

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510

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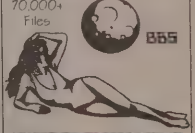

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Dragonhead BBS. (510)417-8718. 8-N-1, 24 hrs., 1200–14,400. Thousands of files, LORD, TW2002, Fido, Internet email. Free access first call. [Exp. #148.]

The Ether Room. (510)228-2843. 8-N-1, 24 hrs., 28,800. All your questions answered, all your dreams fulfilled. MatchMaker, NirvanaNet. Free. [Exp. #149.]

Fremont BBS. (510)796-6714. 24 hrs., 14,400. Two lines. Community service/information BBS. Free access. [Exp. #148.]

Genesis BBS. (510)704-1472. 24 hrs., 28,800. Small/home business resource board, Internet, 5GB shareware, more. [Exp. #147.]

The GIFt Shop. (510)609-1123. 8-N-1, 24 hrs., 14,400–28,800. Largest selection of GIFs/JPEGs for straight and gay users! [Exp. #148.]

GMV-BBS. (510)294-9052. 8-N-1, 24 hrs., 300–28,800. Multiline. Teleconference, private chat, email, forums, games; Amiga, IBM, Mac files. Subscription. [Exp. #148.]

Gold Diggers BBS. (510)568-7807,,,25,25. 24 hrs., 2400–28,800. RIP SLBBS, files, online games, and messages. $10/year. Sysop: Harry Goldberg. [Exp. #148.]

The Great Abyss BBS. (510)482-5813. 24 hrs., 14,400. Telegard Beta site, GaSpNet, NIRVANAnet, PODnet, PR-Net, FidoNet. No PTC, FPR, validation. Sysop: Key Master. [Exp. #148.]

The Hi-Lux BBS. (510)233-7859. 8-N-1, 24 hrs., 300–28,800. Don't believe the hype. [Exp. #147.]

K 3's Over The Wire Resumes. (510)370-3719. Free resume listing. Free job hotlines and other job resources. [Exp. #148.]

The Machine. (510)825-2412. 24 hrs., 28,800. Pink Floyd information and updates. Message bases, files. Free. [Exp. #148.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 20 CD-ROMs, online games, FidoNet, Raider and 49er echos, sports, files. Sysop: Troy Earp. [Exp. #148.]

The New-Ark BBS. (510)796-0947. 24 hrs., 14,400. CD-ROM files. About to become multimedia, so join in. Free. [Exp. #148.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. [Exp. #148.]

Play Time BBS. (510)293-9970. 24 hrs., up to 14,400. Online games, chat, adult files, online purchases. Fee. [Exp. #148.]

Pleasant BBS! (510)689-0519,,22. 24 hrs., 2400–28,800. Most new GIFs, games, shareware, adult files, more. Very friendly sysop. Free/fees. [Exp. #149.]

Red Dwarf BBS. (510)261-3966. 300–14,400. Featuring Jetnet, LORD 3.52, Planets: TEOS, for mature users. Free. Sysops: Red Dwarf, Lady Seraphina. [Exp. #148.]

Sir James BBS. (510)465-8649. 24 hrs., 300–14,400. Adult graphics (gay/straight), games, Windows, pagan/occult/magick, more. $5 lifetime. Sysop: Sir James. [Exp. #147.]

The Stage. (510)251-2431. 8-N-1, 24 hrs., 1200–14,400. Pagan-occult BBS. PODSnet, VampNet. Magickal library. Enjoy the play. [Exp. #148.]

VisionBytes! (510)355-0968. 28,800. Vision, healthcare topics. ASP, Apogee, Epic, FidoNet. Free Internet email. Free access. [Exp. #148.]

Windows OnLine. (510)736-8343, telnet: 199.3.100.146, WWW: *http://www.cris.com/wol* . 8-N-1, 24 hrs., 28,800. Largest Windows BBS. Free limited trial. [Exp. #148.]

Wishing Well BBS. (510)745-7901. 1200–14,400. 85+ games, quality files, supports ANSI and RIP, adult files, more. Sysop: MaryLou White. [Exp. #149.]

916

EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 1200–28,800. 15 lines. 25.3GB. BBS Direct access. Sysop: Bruce Knapton. [Exp. #148.]

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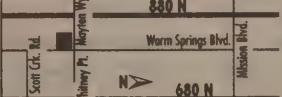

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USER GROUPS

AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Contact: (415)474-1164, BBS (415)441-5145. [Exp. #148.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:00 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Contact: (707)523-9978 or BBS (707)539-6944. [Exp. #148.]

Silicon Valley Video Toaster Desktop Video Users Group Meetings: last Thurs., 7:00 pm, HT Electronics, 422 Hillview Dr., Milpitas. Special guests, demonstrations, Toaster tutorials, info and tips on Toaster System 4.0, more. Contact: Andrew, (408)244-9692. [Exp. #147.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat., 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Contact: Roger Sinasohn, (415)469-7924. [Exp. #148.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Contact: Robbie, (510)797-5636. [Exp. #151.]

CAD

BMUG Mac CAD SIG. Meetings: last Tues., 6:00 pm, San Francisco Apple Office, One Bush St., 10th Fl. (at Market St.). Presentations, demonstrations. Free. Contact: Steve Lukrofka, (415)931-8866 or *LUK@aol.com* . [Exp. #151.]

COMMODORE

C-HUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Contact: (510)531-3734 or 793-7868. [Exp. #152.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Contact: (415)626-9946, BBS (415)441-5145. [Exp. #148.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Contact: (510)689-3224. [Exp. #151.]

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:00 pm, Newark Library Conference Room, Newark. For the Commodore 64/128 computer. Contact: (510)793-7868. [Exp. #147.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Contact: (415)885-6631. [Exp. #152.]

Business Operations SIG Of The Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Contact: Mike Schmit, (408)244-6826. [Exp. #152.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Contact: (510)943-1367. [Exp. #147.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Contact: (510)653-2527, 8 am–10 pm. [Exp. #151.]

FUN PC (Fremont, Union City, Newark PC) Users Group. Meetings: 1st Wed., 6:30 pm, CompUSA Newark Training Room. Contact: (510)795-4286, #8. [Exp. #147.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Contact: (415)454-5556. [Exp. #152.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm. Guests welcome. Contact: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #151.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Contact: (510)276-6450 or 538-2449. [Exp. #148.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Contact: (415)593-9981, BBS (415)571-9259. [Exp. #147.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Contact: (415)788-5338 or *425-1545@mcimail.com* . [Exp. #152.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, UCSF, 3333 California St., San Francisco. Presentations, Q&A sessions. Contact: Loyd Cribbs, (415)751-5219 or 777-1332 for recorded events message. [Exp. #152.]

South Bay WordPerfect User Group. Meetings: 4th Tues., 6:45 pm, Novell, 2880 Lakeside, Suite 300, Santa Clara. WordPerfect for Windows product presentations and education. Free. Contact: Scott Maiden, (408)253-4591. [Exp. #147.]

Stanford Palo Alto PC Users Group. Meetings: 1st Wed., 7:30 pm, Media City, 526 Bryant St., Palo Alto. Contact: Beverly Altman, (415)329-8252 or Larry Weinberg, (415)969-2292. [Exp. #151.]

INTERNATIONAL

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Contact: Charlie Pfefferkorn, (408)923-7570. [Exp. #152.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Contact: Roger Sherman, (415)859-5146. [Exp. #151.]

INTERNET

BCOOL (Bay Area Computer Org. On-Line). Meetings: 2nd Fri., location varies. Free online classes, tech support, discussions, Web surfing, novices welcome, more. Contact: Lloyd, (415)459-8916, BBS (415)459-6094. [Exp. #151.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, Bldg. 6, 2500 Garcia Way, Mountain View. $10. Contact: Walt Schilling, (415)390-9477. [Exp. #152.]

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Contact: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #147.]

Tri-City Internet Group. Meetings: 2nd Tues., 7:00 pm, Fremont main library, 2400 Stevenson Blvd., Fremont. Beginners and advanced users, discussions, Q&A, and demos. Contact: Andy, (510)494-5400. [Exp. #147.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Contact: Randy, (916) 661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #151.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Contact: (415)421-5650. [Exp. #148.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Contact: (408)263-0398. [Exp. #151.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Many SIG meetings. Contact: Tom Bacon, (510)945-4548. [Exp. #147.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Contact: Richard, (415)485-5596. [Exp. #147.]

OpenDoc/Macintosh SIG Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Contact: Tony Meadow, (510)644-9400. [Exp. #152.]

MISCELLANEOUS

BOIG (Bay Area Object Interest Group). Meetings: monthly. An open forum for users of object technology to exchange ideas. Expert speakers. Contact: Ron Lang, (415)967-5044 or *BOIG@aol.com* . [Exp. #151.]

IICS Education SIG. Meetings: 2nd Wed., 6:30 pm, KQED, 2nd floor, 2601 Mariposa Ave., SF. Contact: Donna Booher, (415)673-1892. [Exp. #152.]

IICS Human Interface SIG. Meetings: 4th Tues., 6:30 pm KQED Board Room, 2601 Mariposa Ave., SF. Refreshments, networking. Contact: Bob Brescia, (415)777-5486. [Exp. #152.]

Livermore Amateur Radio Klub. Meetings: 3rd Sat., 9:30 am, Livermore City Council Chambers, corner of Pacific and Livermore aves. All visitors are welcome. For those interested in amateur radio. Contact: Chuck Thompson, KE6DRN, (510)606-6074; or Clancy Soucie, N6FQQ, (510) 462-8946. [Exp. #148.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon. (no meeting 2/12), 7:00 pm, Center for Software Development, 111W. St.

USER GROUPS cont...

John St., Ste. 200, San Jose. $10. Contact: Stan Trumbull, (408)996-1376. [Exp. #152.]

MOBILE

Mobile/Wireless SIG Of The Software Forum. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Dick Roistacher, (415)591-8236. [Exp. #152.]

Stanford Newton User Group. Meetings: 2nd & 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Contact: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net* or *http://www.rahul.net/flasheridn/snug/index.html* . [Exp. #151.]

MULTIMEDIA

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Contact: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #152.]

NETWORKING

Client/Server SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Contact: Neil Goldstein, (408)559-3636. [Exp. #152.]

OS/2

OS/2 BAUG Developers SIG. Meetings: 2nd Mon., 7:00 pm, IBM, 1055 Joaquin Rd., Mountain View. Contact: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 BAUG Enterprise SIG. Meetings: 3rd Mon., 7:00 pm, IBM, 425 Market St., 22nd floor, San Francisco. Contact: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Contact: (510)945-7565 ext. 100. [Exp. #147.]

PROGRAMMING LANGUAGES

Advanced C/C++ SIG Of The Software Forum. Meetings: 1st Thurs., Cubberly Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Contact: Marian Corcoran, (408)973-1662. [Exp. #152.]

Delphi SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, KnowledgePoint, 1129 Industrial Ave., Petaluma. $10. Contact: Bjarne Winkler, (415)461-8086. [Exp. #152.]

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Contact: Scott Jackson, (408)738-0424. [Exp. #151.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Contact: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #152.]

Silicon Valley Paradox Users Group. Meetings: 3rd Tues., 7:00 pm, Tandem Computers, 10100 Tantau, Cupertino. User group of the Silicon Valley Computer Society. Contact: Scott Jackson, (408)738-0424. [Exp. #147.]

Visual Basic SIG Of San Francisco, Software Forum. Meetings: 3rd Thurs., 6:30 pm, Hotel ANA, 50 Third St., San Francisco. $10. Contact: Dov Gorman, (510)525-9525. [Exp. #152.]

Visual Basic SIG Of The Software Forum. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Allan Colby, (415)851-4567. [Exp. #152.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, X-Farm, 901 Battery St., Suite 300, corner of Vallejo, San Francisco. Dedicated to providing advanced information and education for SGI systems. Contact: Doug Cain, (415)346-6150. [Exp. #147.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft/hardware? Contact: Fred, (510)530-8335. [Exp. #151.]

UNIX

AT&T UNIX Computer Users Group. Contact: Thad Floryan, (415)961-5157. [Exp. #151.]

Cal Linux Users Group. Meetings: monthly, Soda Hall, UC Berkeley. To discuss Linux and related topics. Free, everyone welcome. Contact: Paul, (510)527-6196 or *http://www-callug.cs.berkeley.edu/* or *board@callug.cs.berkeley.edu* . [Exp. #151.]

Open Systems SIG Of The Software Forum. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Contact: George Bosworth, (415)851-3304. [Exp. #152.]

WINDOWS

Windows SIG Of The Software Forum. Meetings: 1st Wed., 6:30 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Contact: Fran Finnegan, (415)288-4400. [Exp. #152.]

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Contact: (408)727-3906. [Exp. #152.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Contact: (415)979-8450. [Exp. #152.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm, in Palo Alto. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Contact: (510)498-8249 or *http://www.alvin.org/baaese* . [Exp. #151.]

Black Data Processing Associates. Nationwide network of IT professionals with two chapters in the Bay Area. Contact: Willie Mackey, (408)280-7624 or *wjmackey@netcom.com* . [Exp. #152.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Contact: (408)365-9815. [Exp. #151.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Contact: (408)494-8378. [Exp. #152.]

Database Designers Association. A consortium of those who design custom databases and applications. For membership and meeting info send name and address to *dda@cm-solutions.com*, fax (415)536-1901, voice (415)536-1900. [Exp. #151.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Contact: (415)399-0305. [Exp. #151.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Contact: (415)553-2202, hotline: (415)252-8114. [Exp. #152.]

Management & Technology Association. Explore ways that computers can be used to improve a business's bottom line. Contact: (415)536-1900 or *mt-assoc@cm-solutions.com* . [Exp. #148.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00 pm, program at 6:45 pm. For tech writers, editors; job listings, speakers, publications competition, newsletter. Contact: (415)985-7121, *http://stc.org* for location. [Exp. #151.]

The Software Forum. Meetings: 3rd Wed., 6:30 pm. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Contact: (415)854-7219 for reservations/info. [Exp. #152.]

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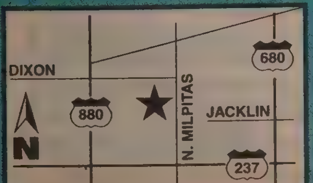

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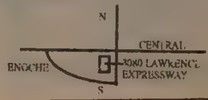

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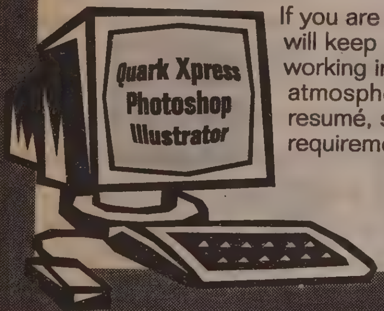

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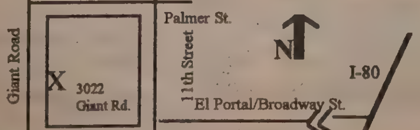

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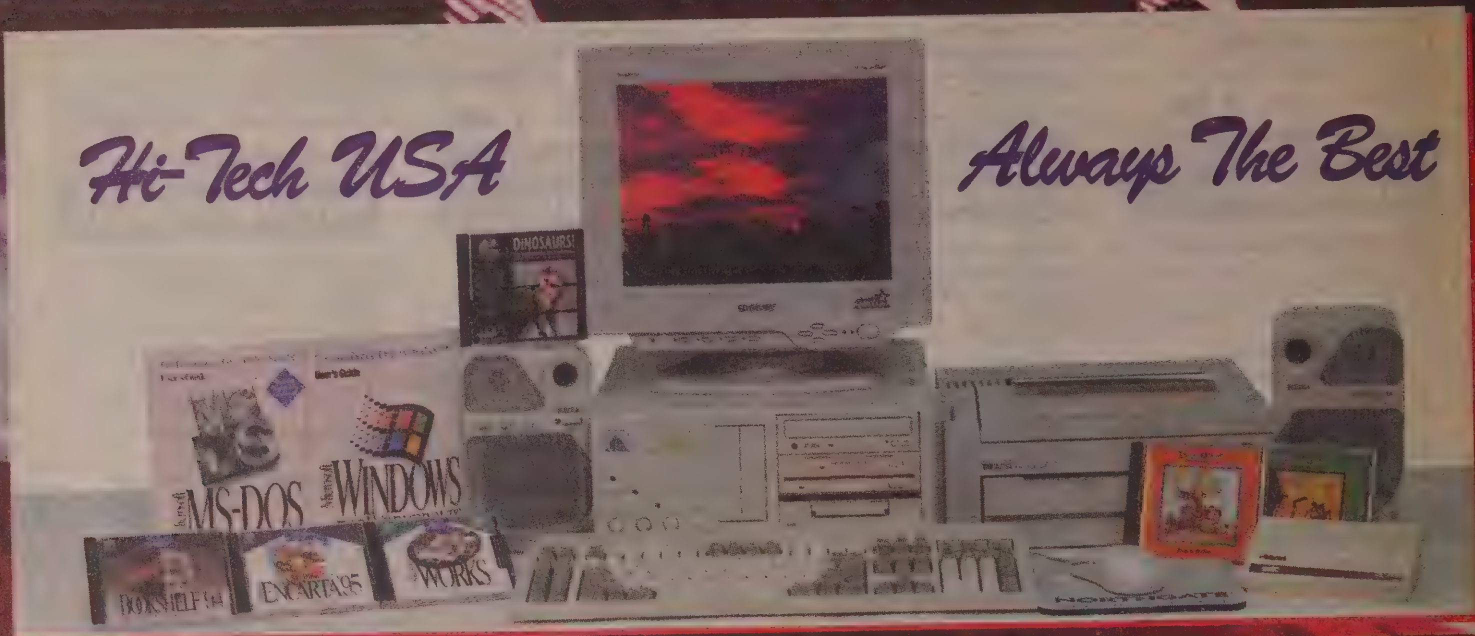

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P5-75/256K PCI	$1,178
P5-60/256K VLB-PCI	$1,108
P5-90/256K PCI (Nexgen)	$1,148
P5-90/256K VLB (Nexgen)	$1,098
5X86-100/256K VLB or PCI	$1,078
486DX4-133/256K VLB or PCI	$1,058
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- Microsoft Office Pro (OEM) .....Add 218

* Monitor viewable size may be smaller than advertised size

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P6-180/256C PCI	N/A	2,298	2,518	2,618	2,808	2,748	2,868	3,098	2,948	3,068	3,378
P6-150/256C PCI	N/A	2,048	2,268	2,368	2,558	2,498	2,618	2,848	2,698	2,818	3,128
P5-166C PCI (INTEL ATLANTIS M/B)**	$298	968	1,188	1,288	1,478	1,418	1,538	1,768	1,618	1,738	2,048
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P5-133C PCI (INTEL ATLANTIS M/B)**	298	648	868	968	1,158	1,098	1,218	1,448	1,298	1,418	1,728
P5-120C PCI (INTEL ATLANTIS M/B)**	298	588	808	908	1,098	1,038	1,158	1,388	1,238	1,358	1,668
P5-100C PCI (INTEL ATLANTIS M/B)**	298	528	748	848	1,038	978	1,098	1,328	1,178	1,298	1,608
P5-75C PCI (INTEL ATLANTIS M/B)**	298	458	678	778	968	908	1,028	1,258	1,108	1,228	1,538
P5-133C PCI (INTEL ENDEAVOR M/B)**	204	548	768	868	1,058	998	1,118	1,348	1,198	1,318	1,628
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P5-100C PCI (INTEL ENDEAVOR M/B)**	204	428	648	748	938	878	998	1,228	1,078	1,198	1,508
P5-75C PCI (INTEL ENDEAVOR M/B)**	204	358	578	678	868	808	928	1,158	1,008	1,128	1,438
P5-133/256C PCI (INTEL ZAPPA or ASUS M/B)	198	548	768	868	1,058	998	1,118	1,348	1,198	1,318	1,628
P5-120/256C PCI (INTEL ZAPPA or ASUS M/B)	198	488	708	808	998	938	1,058	1,288	1,138	1,258	1,568
P5-100/256C PCI (INTEL ZAPPA or ASUS M/B)	198	418	638	738	928	868	988	1,218	1,068	1,188	1,498
P5-75/256C PCI (INTEL ZAPPA or ASUS M/B)	198	348	568	668	858	798	918	1,148	998	1,118	1,428
P5-166/256C PCI**	138	808	1,028	1,128	1,318	1,258	1,378	1,608	1,458	1,578	1,888
P5-150/256C PCI**	138	648	868	968	1,158	1,098	1,218	1,448	1,298	1,418	1,728
P5-133/256C PCI**	138	488	708	808	998	938	1,058	1,288	1,138	1,258	1,568
P5-120/256C PCI**	138	428	648	748	938	878	998	1,228	1,078	1,198	1,508
P5-100/256C PCI**	138	368	588	688	878	818	938	1,168	1,018	1,138	1,448
P5-75/256C PCI**	138	298	518	618	808	748	868	1,098	948	1,068	1,378
P5-60/256C VLB-PCI	100	198	418	518	708	648	768	998	848	968	1,278
P5-90/256C PCI (NEXGEN M/B)	N/A	244	464	564	754	694	814	1,044	894	1,014	1,324
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5X86-100C VLB (PCI: ADD $20)	56	158	378	478	668	608	728	958	808	928	1,238
486DX4-133C VLB (PCI: ADD $20)	56	144	364	464	654	594	714	944	794	914	1,224
486DX4-100/256C VLB-PCI (ASUS M/B)	138	208	428	528	718	658	778	1,008	858	978	1,288
486DX4-100C VLB (PCI: ADD $20)	56	108	328	428	618	558	678	908	758	878	1,188
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486DLC-40 ISA (128K: Add $20)	N/A	58	278	378	568	508	628	858	708	828	1,138

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P5-150/256K PCI	1,278
P5-133/256K PCI	1,118
P5-120/256K PCI	1,058
P5-100/256K PCI	998
P5-75/256K PCI	938
P5-60/256K VLB-PCI	868
P5-90/256K PCI (Nexgen)	908
P5-90/256K VLB (Nexgen)	858
5X86-100/128K VLB or PCI	838
486DX4-133/128K VLB or PCI	818
486DX4-100/128K VLB or PCI	778
486DX2-80/128K VLB or PCI	758
486DLC-40/128K ISA	738

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P5-75/256K PCI	1,048
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P5-90/256K PCI (Nexgen)	1,018
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5X86-100/256K VLB or PCI	958
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486DX4-100/256K VLB or PCI	898
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UPGRADES

Microsoft Windows 95 Full Copy	Add $90
Microsoft Windows 3.x	Add $44
28.8 Internal Fax Modem	Add 105

HI-TECH WINNER SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM** (16MB/32MB: Add $188/$588)
- **850MB EIDE** (1.2GB/1.6GB: Add $40/$80)
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth 64 SE VLB or PCI with 1MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- PC DOS and Microsoft Compatible Mouse w/Pad

P5-166/256K PCI	$1,718
P5-150/256K PCI	1,568
P5-133/256K PCI	1,348
P5-120/256K PCI	1,288
P5-100/256K PCI	1,228
P5-75/256K PCI	1,168
P5-60/256K VLB-PCI	1,108
P5-133/256K PCI (Intel Zappa)	1,418
P5-120/256K PCI (Intel Zappa)	1,358
P5-100/256K PCI (Intel Zappa)	1,288
P5-75/256K PCI (Intel Zappa)	1,238

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17" Non-Interlaced Monitor*	Add 240
28.8 Internal Fax Modem	Add 105

HI-TECH SUPER P5 SYSTEMS

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- 256KB Pipelined Burst Cache
- **8MB RAM** (16MB/32MB: Add $188/$588)
- **850MB EIDE** (1.2GB/1.6GB: Add $40/$80)
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond or ATI PCI w/1MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- PC DOS and Microsoft Compatible Mouse w/Pad

P5-166/256K PCI (Intel Atlantis)	1,818
P5-150/256K PCI (Intel Atlantis)	1,668
P5-133/256K PCI (Intel Atlantis)	1,498
P5-120/256K PCI (Intel Atlantis)	1,438
P5-100/256K PCI (Intel Atlantis)	1,378
P5-75/256K PCI (Intel Atlantis)	1,318
P5-133/256K PCI (Intel Endeavor)	$1,448
P5-120/256K PCI (Intel Endeavor)	1,388
P5-100/256K PCI (Intel Endeavor)	1,328
P5-75/256K PCI (Intel Endeavor)	1,268

UPGRADES

Microsoft Windows 95 Full Copy	Add $90
Microsoft Windows 3.x	Add $44
17" Non-Interlaced Monitor*	Add 240
28.8 Internal Fax Modem	Add 105

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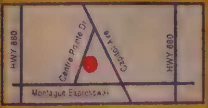

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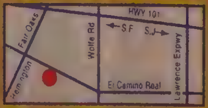

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*Monitor viewable size may be smaller than advertised size

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Back 900VA / 1200VA	328 / 398
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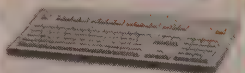

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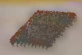

387DX-40 Tube / Box	**$18 / 30**
387DX-33 Tube / Box	**18 / 30**
387SX-40 Tube / Box	18 / 30
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4MB/8MB/16MB (EDO)	**106 / 212 / 424**

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Fax Modem 28.8 with V.34 Ext	122
Fax Modem 28.8 w/Voice Mail & Wavetable Sound Card All In One	**148**
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PCMCIA Fax Modem 28,800 w/V.34	158
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SUPRA 28.8 Fax Modem w/V.34 Int/Ext.	**114/144**
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Sportster 14,400 FM Int / Ext (Classic)	**86/108**
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Sportster 28.8 Fax Modem w/V.34 Ext	191

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Mouseman Bus (Retail)	**58**
Trackman (OEM / Retail)	42 / 70

Microsoft

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17" SVGA 1280•1024 .28 (KFC or Smile)	**518**

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17" Super VGA 1280•1024 .28	628

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MF-9021E 21" 1600•1200 .30	1,714
MF-8221E 21" 1600•1200 .28	1,874

Impression

3E Plus 14" 1024•768 .28 NI	$210
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7E 17" 1280•1024 .28 NI	520

MAG INNOVISION

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T2-20 .30	1,876

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447L 17" 1024•768 .28	686
447X 17" 1600•1280 .25	946
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17EA 17" 1280•1024 .28	624
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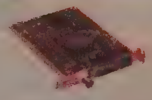
17PS 17" 1600•1280 .25 Green	810
20G 20" 1600•1280 .28	1,140
21PS 21" 1600•1280 .25	**1,556**

*** Monitor Viewable size may be smaller than advertised size**

NETWORKS



16 BIT Ethernet Cards (Coax)	**$19**
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16 BIT Ethernet Cards (Combo)	**21**

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5 / 10 / 25 User	$CALL
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DJ-50 1.4GB Internal	**212**
Tape QIC-80 3M DC2120	**13**
JT-35C Trakker 350MB Ext	154

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Microsoft Office Professional OEM (with System)	218
Microsoft Windows 3.x (with System)	43
Microsoft Windows for Workgroup (with System)	53

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VGA 512K	34
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Trident VLB w/1MB	**53**
Trident PCI w/1MB	**54**

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WinBoost VLB 2MB DRAM (Mach 64)	**153**
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Stealth 64 PCI 2MB (DRAM)	**126**
Stealth 64 VLB 2MB (DRAM)	**130**
Stealth 64 PCI 2MB (VRAM)	**232**
Stealth 64 VLB 2MB (VRAM)	**188**
Stealth 64 PCI 4MB (VRAM)	**374**
Stealth 64 VLB 4MB (VRAM)	**384**
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Kelvin Video PCI 2MB (DRAM)	134
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Fahrenheit 64 VLB 1MB (DRAM)	82
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486DX4-133/256K VLB or PCI	178 / 198
5X86-100/256K VLB or PCI	198 / 218
P5-60/256K VLB-PCI	198
P5-75/256K PCI**	298
P5-100/256K PCI**	368
P5-120/256K PCI**	428
P5-133/256K PCI**	488
P5-150/256K PCI**	648
P5-166/256K PCI**	808
ASUS	
486DX4-100/256K VLB-PCI	$208
P5-75/256K PCI (TRITON)**	348
P5-100/256K PCI (TRITON)**	418
P5-120/256K PCI (TRITON)**	488
P5-133/256K PCI (TRITON)**	548
INTEL	
P5-75/256K PCI (ZAPPA TRITON)	348
P5-100/256K PCI (ZAPPA TRITON)	418
P5-120/256K PCI (ZAPPA TRITON)	488
P5-133/256K PCI (ZAPPA TRITON)	548
P5-75/256K PCI (ENDEAVOR PIPELINED CACHE)	408
P5-100/256K PCI (ENDEAVOR PIPELINED CACHE)	478
P5-120/256K PCI (ENDEAVOR PIPELINED CACHE)	538
P5-133/256K PCI (ENDEAVOR PIPELINED CACHE)	598
P5-75/256K PCI (ATLANTIS PIPELINED CACHE)	508
P5-100/256K PCI (ATLANTIS PIPELINED CACHE)	578
P5-120/256K PCI (ATLANTIS PIPELINED CACHE)	638
P5-133/256K PCI (ATLANTIS PIPELINED CACHE)	698
P5-150/256K PCI (ATLANTIS PIPELINED CACHE)	858
P5-166/256K PCI (ATLANTIS PIPELINED CACHE)	1,018
P6-150/256K PCI	2,048
P6-180/256K PCI	2,298
P6-200/256K PCI	2,598
NEXGEN	
P5-90/256K VLB	194
P5-90/256K PCI	244

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Goldstar / Vertos 4X IDE	84 / 86
Mitsumi 2X / 4X IDE	64 / 88
NEC 4X 4-Speed IDE	110
NEC 4X 4-Speed SCSI Int.	138
NEC 6X 6-Speed SCSI Int.	274
SONY 4X IDE	106
SONY 76S 4X SCSI	138
TEAC 506A 4-Speed IDE w/1.44 FDD	148
TEAC CD-56E 6-Speed IDE Int	148
Toshiba 4-Speed IDE Int.	104
Toshiba 6-Speed SCSI Int.	288
Deluxe Speakers	6
Speakers 25 Watt/40 Watt/80 Watt	16 / 18 / 28
Speakers 100 Watt/120 Watt/160 Watt	32/38/42

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16-Bit Sound Card	$43
Televideo 16 MCD / IDE	52

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CREATIVE LABS, INC

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Sound Blaster 16 Vibra PNP	74
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16-Bit Sound Card, Quad-Speed CD-ROM Internal, Stereo Speakers, 11 Top Quality CD Titles

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4400 4X IDE + 11 Titles	$272
6000 4X IDE + 6 Titles	$306
800 8X IDE + Interface	$346
8000 8X IDE + Titles + Speaker + Sound Card	$526

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- 4MB RAM (8MB for Pentium™)
- 540MB Hard Drive
- 32-BIT VL Bus Windows Accelerator
- Large 10.3" Screen (Dual Scan)
- 1MB Video Memory
- Built-In Trackball
- Carrying Case
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Docking Station Option

HI-TECH MULTIMEDIA NOTEBOOKS	Dual Scan Color (10.3")	Active Matrix Color (9.5")
486DX4-100*	$1,618	$1,858
P5-75*	$1,948	$2,218
P5-100*	$2,038	$2,298

* All notebook computers come with Intel CPU

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PCMCIA Dual-Speed / Quad-Speed CD-ROM	Add $240 / 350
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PCMCIA LAN Adapter (10Base-T & Twist)	Add $130
Extra NIMH Battery Pak	Add $120
Extra AC Adapter	Add $80
Docking Station	Add $410

HI-TECH CD-ROM Notebooks

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CD-ROM Notebooks

STANDARD CONFIGURATIONS

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- 540MB HDD (please see upgrades)
- Removable CD-ROM (4-Speed)
- Removable 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Mini Docking Station Option

HI-TECH CD-ROM NOTEBOOKS	Dual Scan Color (11.3")	Active Matrix Color (10.4")
P5-75	$2,458	$2,668
P5-100	$2,548	$2,748
P5-120	$2,608	$2,848
P5-133	$2,748	$2,948

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To 16MB	Add $310
To 32MB	Add $880
To 810MB Hard Drive	Add $100
To 1.3GB Hard Drive	Add $300
PCMCIA Fax Modem 14,400	Add $84
PCMCIA Fax Modem 28.8 w/V.34	Add $168
PCMCIA LAN Adapter (10Base-T & Twist)	Add $130
Extra Battery Pak	Add $200
Mini Docking Station	Add $220

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401 Great Letters	6
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All You Can Play	6
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Book of Patterns	7
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Business Library	6
Carmen San Diego DOS	12
CD Deluxe Pak (Chess Master 3000, Mavis Teaches Typing, US Atlas, World Atlas)	10
Challenge Pack	10
Complete Guide to Symptoms	6
Compton's Interactive Encyclopedia MPC	12
Desert Storm	7
Desktop Publisher's Dream 1994	6
Dinosaur	7
Doom Shareware	7
Family Choice	14
Family Doctor	14
Family Health Tracker	5
Flight Simulator w/system	9
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Golf (w/System)	4
Great Cities	14
Hobbies and Leisure and Bible	7
Internet Encyclopedia (2 CD Set)	8
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Language of the World	9
Learning Games (Windows)	7
Magic Death Virtual Murder 2	12
Mario is Missing	14
Mayo Clinic Family Health	13
Medical Dictionary Family Health Guide	6
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Microsoft Super Home Bundle (Works, Encarta, Golf, Money, and Bundle CDs) w/system	60
MIDI and WAVE Workshop	6
Multimedia Pack for Windows	9
Playing with Language – English	14
Playing with Language – French	14
Playing with Language – German	14
Playing with Language – Japan	14
Playing with Language – Spanish	14
Renaissance Master II	9
Return to Zork	6
Sound Library	6
Star Trek 25th Anniversary	12
Star Wars Chess & MPC	12
Stun-Run	9
The Best 10 CD Pack	30
The Seventh Guest	16
Thinking Games (Windows)	6
Thunder Media Sound Library	8
Time Table of History Dos	14
Top 201 Games	7
US Aircraft Carrier	7
US Battle Tank	7
US Bomber	7
US History DOS/MAC	11
USA Wars – Civil War	18
USA Wars – Korea	18
Window Programs	6
World of Flight w/system	9
World Wide Web Source	6

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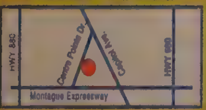

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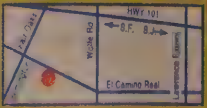

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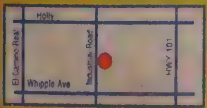

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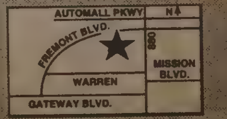

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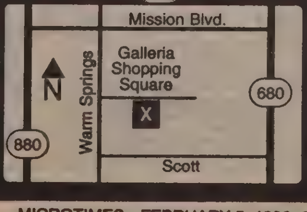

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ACER FACTORY OUTLET STORE 10
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ACTNET ADVANCED TECH CORP 250
ADAPTEC 12,13
ADDTRONICS 6
ADVANCED COMPUTER PERIPHERALS 315
ADVANCED COMPUTER SYSTEMS 18
ADVANCED SYSTEM PRODUCTS INC. 6
AIM COMPUTERS 229
AIMNET 99
ALPHA CD IMAGING 240
AMERICA COMPUTER 226
AMERICAN COMPUTER RESEARCH 303
AMERICAN MULTITECH SYSTEMS 17
AMT INTERNATIONAL 128
APEX RESEARCH 56
APPRO INTERNATIONAL 301
ARM COMPUTER INC 55
AROMA TECH INC. 130–132
ART MULTIMEDIA SYSTEMS 126
ASA COMPUTERS 122–125
ASTRO RESEARCH 166
ATMAN PC COMPUTER 248
AVISION LABS, INC. 200
B-WARE 64
BAY COMPUTER 91
BCSA COMPUTERS 69
BELMONT SYSTEMS INC 266,267
BENTEK COMPUTER 159
BEST INTERNET COMMUNICATIONS 112
BETA NINETIES COMPUTER 109
BG COMPUTER 254
BOLD DATA TECHNOLOGY 233
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CALIFORNIA LS 29
CALLAN CORP 111
CARDSERVICE INTERNATIONAL 88
CENTER FOR ELECTRONIC ARTS 240
CENTRAL COMPUTER SYSTEMS 258–265
CHEM USA CORPORATION 23
CHICOTEC 167
CITYCOM INC. 239
CL SYSTEMS 20–21
COMMERCIAL COMPUTERS INT. 329
COMP EXPRESS 141
COMPU 11 63
COMPU DATA 247
COMPUMART 104
COMPURUN SYSTEMS 89
COMPUTERCARE 61
COMPUTER MODULES 227
COMPUTER SELECTION 73
COMPUTER SYSTEMS UNLIMITED 56
COMPUTER TECHNOLOGY SOURCE 161
COMPUTER UNIVERSE 47
COMPUTER ZONE 112
COMTEK COMPUTERS 147
CONTROL MEMORY 26
CPU & MEMORY EXCHANGE CLUB 113
CUPERTINO COMPUTER 10
CYPRESS COMPUTERS 299
DARKHORSE SYSTEMS INC 76
DATA COM SYSTEMS 249
DATA-4-LIFE 50
DIGITAL CONSULTING 100
DISK DRIVE DEPOT 3
DOMINO COMPUTER) 19
EARTHLINK NETWORK 93
EFI'S DISCOUNT COMPUTER 227
EMPAC INTERNATIONAL 95
ENVISIONS SOLUTIONS TECHNOLOGY 27
ESSEX PORTABLE SOLUTIONS 52
EVERGREEN COMPUTER INT'L 136,137
EVERNET EDUCATION SERVICES 71
FASTLINK NETWORK PRODUCTS 273
FINE TEC 145
FORTUNE MICRO INC. (FORMERLY LTI LEOPARD) 241
FRY'S ELECTRONICS 2,169–199,339
FUTURE COMPUTING SOLUTIONS 116
GENERAL MICRO 255
GIGABYTES 28
GOLDEN MICRO COMPUTER 143
GRANITE - DIGITAL 18
GREAT MALL COMPUTERS 129
HALTED SPECIALTIES 269
HD COMPUTER 34–45
HDSS, HARD DRIVE SUPER SOURCE 278–289
HI-TECH USA 330–333,336
HIQUALITY SYSTEMS, INC. 80–63
HITRON SYSTEMS 296–297
HKG COMPUTERS 155
HYPERSURF INTERNET SERVICES 94
IBI COMPUTERS 57
ILYAMA NORTH AMERICA INC. 26
INNOCOM SYSTEMS 311
INPUT AUTOMATION 72
INTERNATIONAL COMPUTER TECHNOLOGY 34
INTERNATIONAL MODULE DESIGN 32
INTERNET AVENUE 96
INTERNET LITERACY CONSULTANTS 117
INTERNET MARKETING SERVICE 98
INTERNEX 97
INTERPRO MICRO SYSTEMS 78
INTL TECHNOLOGY COMPUTER 134
IQ INFOQUEST COMPUTER 30,31
ISDN TEK 103
J & K TECHNOLOGY 49
JDR MICRODEVICES 70
JEMINI ELECTRONICS 236,237
JOHN WURTS FINANCIAL SERVICE 105
KINGSTAR COMPUTER 9
KONICOM 251
KUDO NET 106
LAITRON COMPUTER 150–153
LAN TREK 77
LAP-TOP SUPERSTORE 60
LEAPFROG LAB INC. 15
LEGEND COMPUTER 121
LINDEN MICROTECH 59
LUMIS INTERNATIONAL 16
M.A.C. 164
MARKET PRO 302
MCTEK SYSTEMS 302
MEI MICROCENTER INC./WINBOOK 5
MIC COMPUTER 295
MICROBELL 86
MICROTIMES QUOTATION HOTLINE 32,33
MICROTIMES 226,246,310
MIRACLE COMPUTER 115
MIRAGE TRAVEL 86
MULTI MICRO SYSTEMS 271
NCA COMPUTER PRODUCTS 209–225
NETIS TECHNOLOGY 293
NETWORK ASSOCIATES 107
NEXGEN 11
NORDIC COMPUTERS 337
NOVA DATA COMMUNICATIONS 64
NOVELL 48
NOW ELECTRONICS 149
ON-LINE DESIGN 238
ORION INFORMATION SYSTEMS 276
PACIFIC COMPUTER PRODUCTS 278–289
PALO ALTO MICRO 336
PARAMOUNT COMPUTER 313
PARS INTERNATIONAL COMPUTER 243
PC TEN 127
PC WAREHOUSE 87
PERFECT SOLUTION MULTIMEDIA 235
PIXEL USA COMPUTER 306,307
PRECISION GRAPHICS 254
PROMOX SYSTEMS 203
ROBERT AUSTIN CORP 291
SCHWAB COMPUTER CENTER 135
SCSI WORKS 278–289
SILICON SOLUTIONS 88
SLIP.NET 7
SOFT SOLUTIONS 309
SONGTECH INTERNATIONAL, INC. 165
SONIC COMPUTER 67
SOURCE INTERNET SERVICES 105
SPIDER GRAPHICS 133
STARLITE ELECTRONICS 245
STORAGE SYSTEMS ENGINEERING 28
SUPERCOM 340
SURF COMMUNICATIONS 110
SWEET MEMORY 84
SYMPHONY COMPUTER 118,119
T H COMPUTER SOLUTIONS INC 207
TCM INC. 157
TECHNOLAND 201
TOTAL PERIPHERALS INC. 66
TOTAL TECHNOLOGIES 278–289
TOTALLY CELLULAR 278–289
TRANSWELL COMMUNICATION 305
TRIPLE STARS COMPUTERS 335
TRUECOMP AMERICA INC 205
U.C. COMPUTER 328
UMIRACLE MICROSYSTEMS 230,231
UNITED MICROSYSTEM INC 163
UNIVERSAL COMPUTER PRODUCTS 253
USM DISTRIBUTORS 274,275
VALUE NET INTERNET SERVICE 101
VANISHED CHILDREN 240
VIANET COMMUNICATIONS 94
W & K INTERNATIONAL 257
WEDGE TECHNOLOGY 24,25
WINBOOK COMPUTER CORPORATION 5
WINNER'S CIRCLE 53
WIT INTERNATIONAL 277
WORLD-NET MICROSYSTEMS 318,319
ZOOM.COM 106

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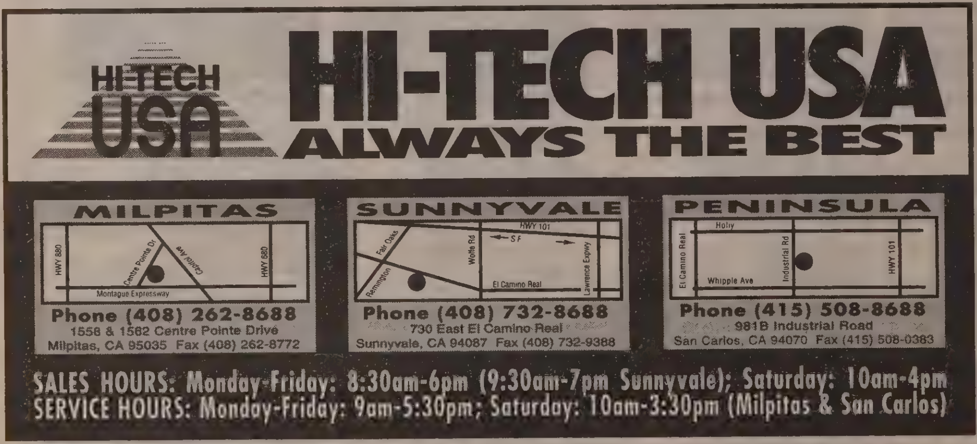

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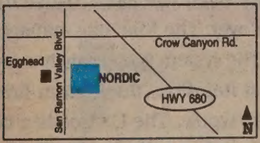

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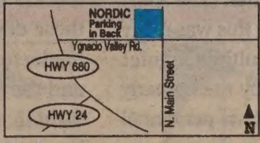

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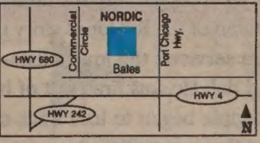

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Shooting The Messenger

Or

My Life And Times With *MacUser*

About a month ago the editors of *MacUser* and who knows who else looked at their page count and their editorial budget and decided to fire that last *MacUser* writer who dated back to the first issue: me. I was told that the magazine was being redesigned and I wouldn't be needed.

This of course is bull. Fact is, the powers that be were sick and tired of my complaining about Apple.

On the other hand, it's something of a miracle that I managed to stay at this magazine for as long as I did since I was hired by publishing genius Felix Dennis, the guy who started *MacUser* and later sold it, to "complain."

> The Mac interface needs a face lift badly and nobody wants to discuss it.

I was given the title of anti-editor; I was to ridicule the Macintosh users and the machine in general to get the readers "worked up." He rationalized that the machine was over-hyped and the magazine needed balance to be credible. Many of the readers couldn't see this ploy; they constantly got bent out of shape while the column became very popular.

Over the years as the nutball users went off to the Amiga or the WWW or who knows where, and as the machine improved, I refocused the column on the company—Apple. I think this was a service to the community, but it probably did not endear me to Spindler & Co. as I harped on inept marketing. The result of which was recently evident with Apple posting a bonehead loss on increased sales.

I also harped on the fact that Mac users were living in a cocoon regarding the PC and should wake up. Much of this new target was created by me when Apple stupidly fired Ric Jones. (The short version of the Ric Jones story is that this was a guy who serviced the journalists—the ultimate gofer and pal. He was fired out of hand by the comany as Apple began to lose track of its own personnel and their capabilities.)

My basic thesis is now that the Mac community has fallen asleep. It's pathetic. The Mac interface needs a face lift badly and nobody wants to discuss it. "Hey, that Macworld Show was packed!" they'll say.

So the column that subscribers didn't get featured more complaining. This time about how Apple misread the market completely and promoted low-end machines instead of high-end machines during the Windows 95 rollout when people would have found Apple to be an interesting alternative to Win 95.

Apple can't even understand its own strengths. People who use Macs (such as the commercial graphic artists) use as many machines as they can afford, and the fastest they can afford. They simply can make more money with more power. But instead of feeding this insatiable need, Apple tried to capture the low end of the market with cheap home machines that don't have enough ooomph to run half of the software home users want to use. We're a two-Mac family and my ten-year-old won't even use his old Performa anymore. It doesn't have enough resources to run most CD-ROMs. When it does it's too slow.

Apple never woke up to the fact that home machines should be more powerful than business computers, not less powerful. Heck, we don't want to discuss this! Do we?

Dvorak's Last Apple Rant?

So as a tribute to the readers who used to finish their notes with "Don't let the a**holes get you down" and as a favor to the Apple shareholders, let me outline some final complaints.

Apple's real problems. First of all, while the Mac has historically been the easy-to-use machine, those days are over. The Mac has managed to get harder to use. The system is essentially a mess now, and the newest iteration, the System Error 11, is making matters worse. The OS needs a complete overhaul. Meanwhile, as the Apple OS geeks work on Copland, you can be sure Billg up in Redmond will incorporate each new feature before Apple does. Apple has been showing these features like dorks too dumb to understand that Billg & Co. are taking notes!

Second, the Apple low-end strategy is born out of total stupidity. Home machines have to be more powerful than business machines, not the other way around. The low-end Apple line was as close to useless as you can get without being a Commodore 64. Apple has completely lost this market.

Third, and ask the development community about this, Apple has essentially stiffed the developers and cut back on the services they should provide to keep developers happy. While a lot of development was once subsidized, sure, it kept developers developing. Now they all work the Windows scene. Apple may as well shoot itself as to let this continue. Someone who understood this mechanism was obviously fired years ago and replaced by a low-paid dumscrew.

Fourth, to some extent the promotional side of the company has suffered in much the same way. The company used to brag about, and do a dog and pony show extolling, the fact that it got more free publicity than companies a hundred times larger. Now all the publicity is bad, and the good news is never covered. Again I have to assume that competent people were replaced by hacks.

Fifth, the idiocy of the Newton and Pippin needs no comment. When does Apple think it can compete with Casio in regard to the Newton? And the Pippin, which I won't go into, is as dumb a product as I've ever seen in twenty years!

Finally, let me say that Apple has been up and Apple has been down and it keeps growing. And even during this hiccup sales were up while the profits faded.

Increased sales may continue and Apple will work its way out of this situation. But if sales stop growing, the real pinch will occur and the company will be trapped in a whirlpool going to the bottom.

As for my relationship with the Mac community, I'll bitch and moan here in *MicroTimes*. The weasels who did me in will pay later.

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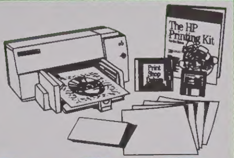

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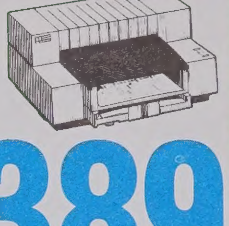

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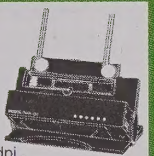

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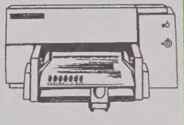

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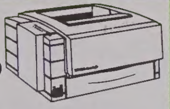

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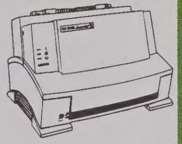

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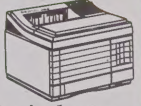

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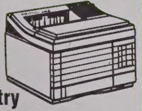

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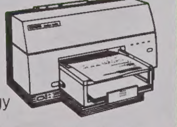

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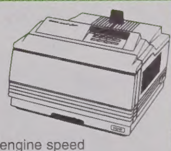

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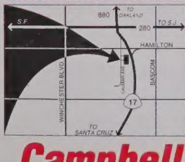

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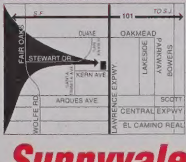

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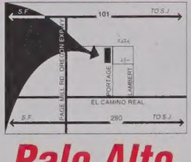

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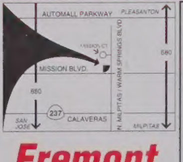

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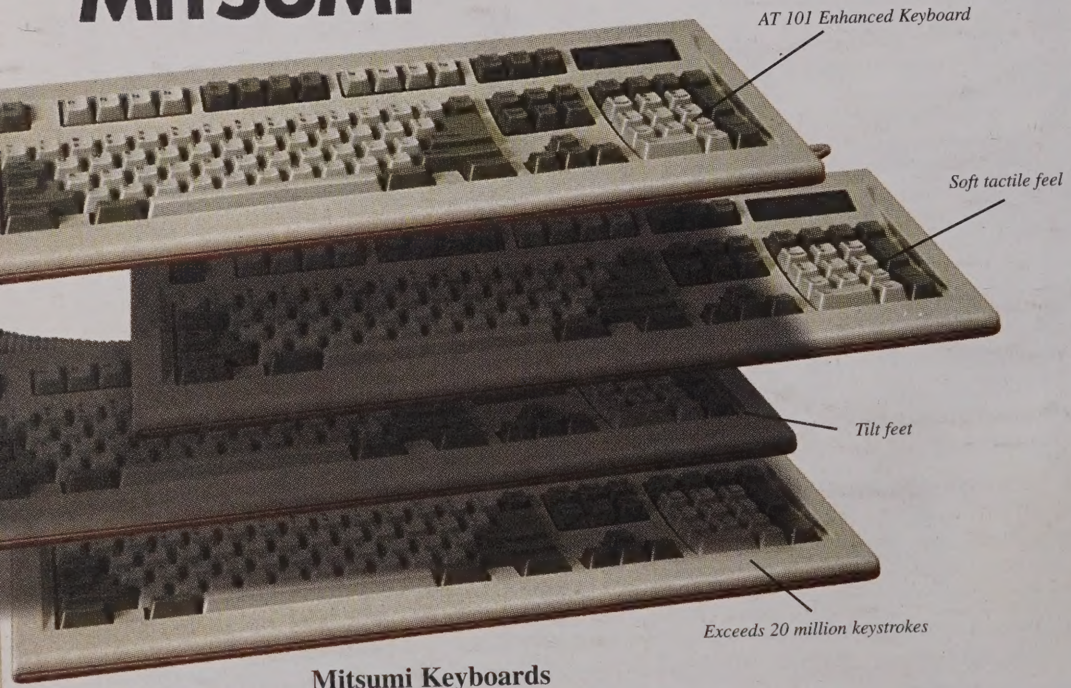

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